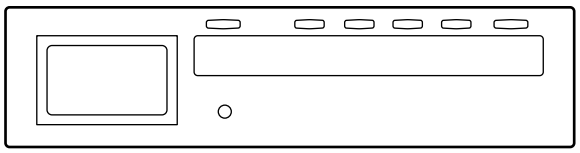
SHARP SERVICE MANUAL

No. S0290DXAT50H/



DVD PLYAER

MODEL DX-AT50H

DOLBY DIGITAL

COMPACT disc DIGITAL AUDIO

dts DIGITAL OUT

DVD VIDEO™

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

CONTENTS

SHARP CORPORATION

IMPORTANT SAFEGUARDS AND PRECAUTIONS (FOR U.K. ONLY)

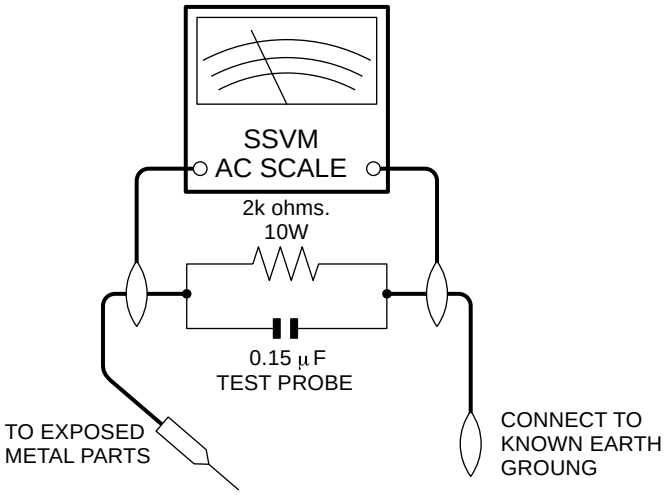
1. IMPORTANT SERVICE NOTES

BEFORE RETURNING THE DVD VIDEO PLAYER

Before returning the DVD video player to the user, perform the following safety checks.

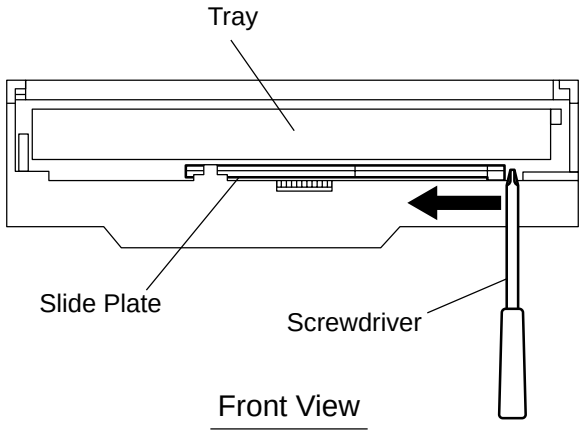
1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the DVD video player.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor/capacitor networks, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for current in the following manner.

- Plug the AC line cord directly into a 230 volt AC outlet (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5 kohm, 10 watt resistor paralleled by a 0.15 μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit.
- Use an DVM or VOM with 1000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor (See Diagram).
- Move the resistor connection to earth exposed metal part having a return path to the chassis (metal cabinet, screw heads, knobs and control shafts, etc.) and measure the AC voltage drop across the resistor. Reverse the AC plug on the set and repeat AC voltage measurements for each exposed part. Any reading of 1.4 V rms (this corresponds to 0.7 mA rms AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the DVD video player to the owner.



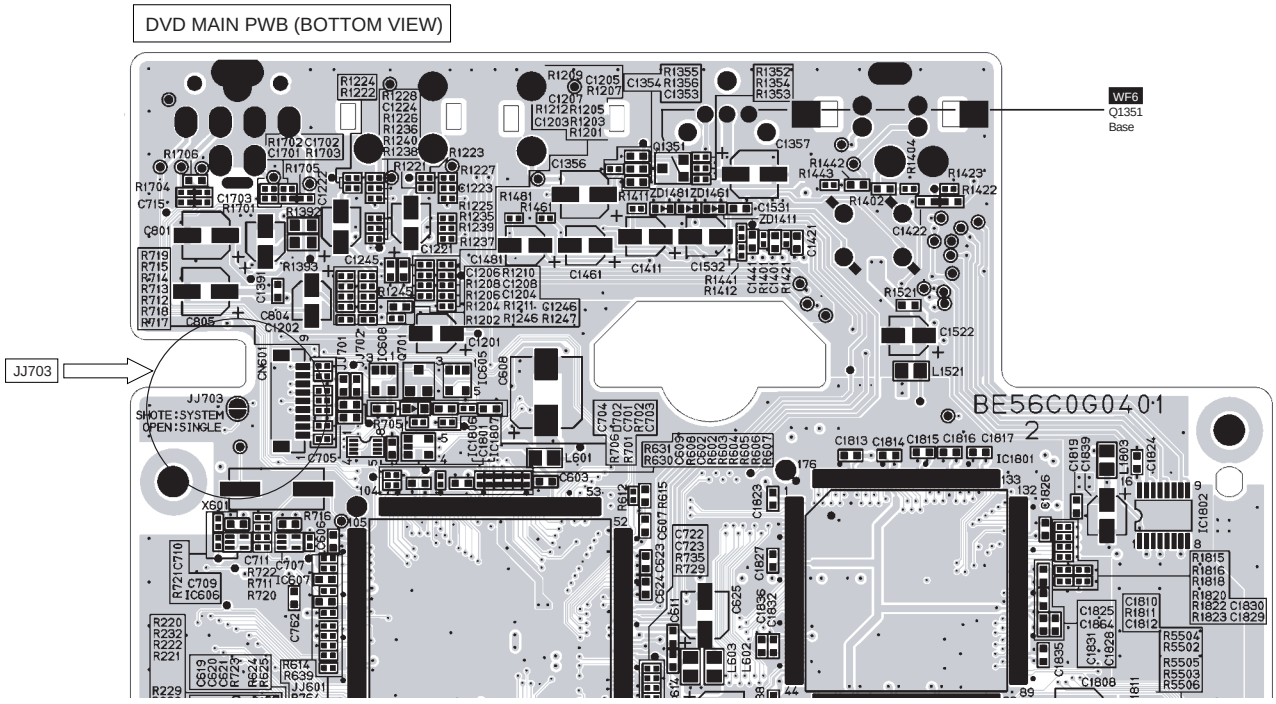
How to manual eject

Remove the top cabinet, the bottom cabinet, the top support angle and the front unit.
(Refer to “CABINET DISASSEMBLY INSTRUCTIONS” (page 10).)
The trays can be ejected when the slide board is moved to the left with a thin screwdriver as shown in the figure below.



To run the DVD player unit separately

This unit is configured to run when connected to the AV control unit with the system cable. To run the unit separately for repair or any other reason, make the short land JJ703 shown in the figure open. There is no problem even if it is not returned to the short state after completing the work.



SPECIFICATIONS

ITEM	CONDITIONS	UNIT	NOMINAL	LIMIT
1. Video Output	75 ohm load	Vpp	1.0	
2. Digital Out (COAXIAL)	75 ohm load	Vpp	0.5	
3. Audio (PCM)				
3-1. Output Level	1 kHz 0dB	Vrms	2.0	
3-2. S/N		dB	110	
3-3. Freq. Response				
DVD	fs=48 kHz 20~22 kHz	dB	± 2	
CD	fs=44.1 kHz 20~20 kHz	dB	± 2	
3-4. THD+N	1 kHz 0dB	%	0.005	

NOTES:
1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply : AC 230 V, 50 Hz
3. Load imp. : 100 kohm
4. Room ambient : +25 °C

■ DVD player

Power source	AC 230 V, 50 Hz	
Power consumption	15 W	
Dimensions	Width: 215 mm (8-1/2") Height: 58 mm (2-5/16") Depth: 257 mm (10-1/8")	
Weight	2.0 kg (4.4 lbs.)	
Signal system	PAL colour	
Supported disc types	DVD (Region number 2, ALL), audio CD, CD-R, CD-RW	
Video signal	Horizontal resolution: 500 lines S/N ratio: 70 dB	
Audio signal	**Frequency charactoristics**	Linear PCM DVD: 4 Hz to 22 kHz (sampling rate: 48 kHz) 4 Hz to 44 kHz (sampling rate: 96 kHz) CD: 4 Hz to 20 kHz
	S/N ratio	CD: 96 dB (1 kHz)
	Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB
	Total harmonic distortion ratio	0.006 % maximum
Audio output terminals	Coaxial digital output: RCA type × 1 Analog output: RCA type × 1 pair (L/R)	
Video output terminals	Video output: RCA type × 1 S-video output: S-terminal × 1 Component video output: RCA type × 3	
Other terminal	System control × 1	

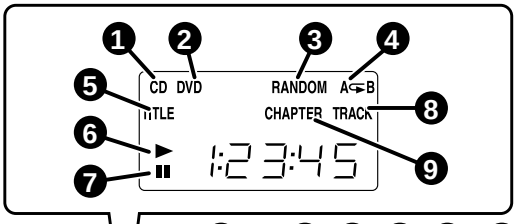
NAMES OF PARTS

■ DVD player

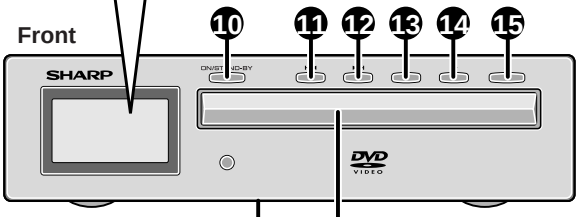
1. CD Indicator
2. DVD Indicator
3. CD/MP3 Disc Random Play Indicator
4. Disc Repeat or Disc A - B Repeat Indicator
5. DVD Title Indicator
6. Disc Play Indicator
7. Disc Pause Indicator
8. CD/MP3 Disc Track Indicator
9. DVD Chapter Indicator

10. On/Stand-by Button
11. DVD Chapter Skip or CD/MP3 Disc Track Down Button
12. DVD Chapter Skip or CD/MP3 Disc Track Up Button
13. Disc Stop Button
14. Disc Play Button
15. Disc Tray Open/Close Button
16. Disc Tray
17. System Connection Socket (to AV control unit)
18. Audio Output Sockets
19. Coaxial Digital Audio Output Socket
20. Video Output Socket
21. S-video Output Socket
22. Component Video Output Sockets
23. AC Power Lead

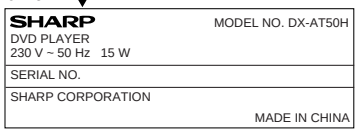
Display



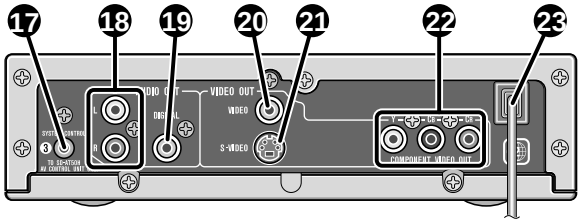
Front



<The bottom of the unit>

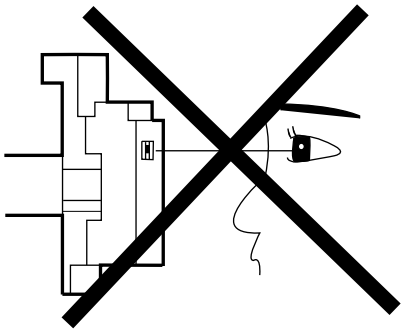


Back



LASER BEAM SAFETY PRECAUTIONS

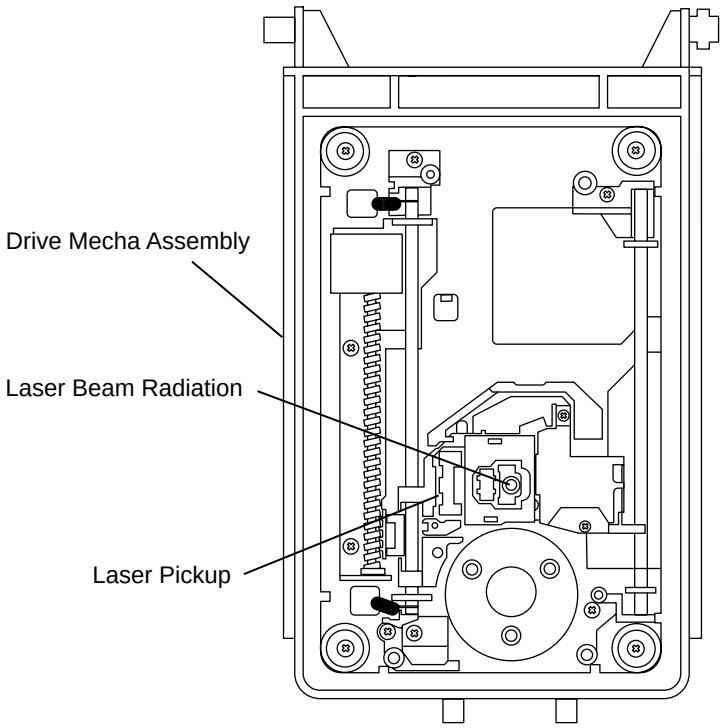
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30 cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

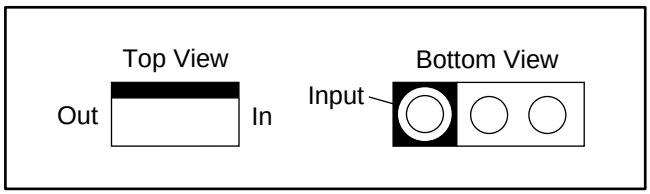
Caution: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



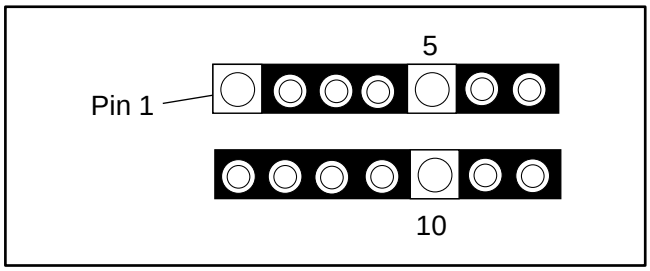
STANDARD NOTES FOR SERVICING

Circuit Board Indications

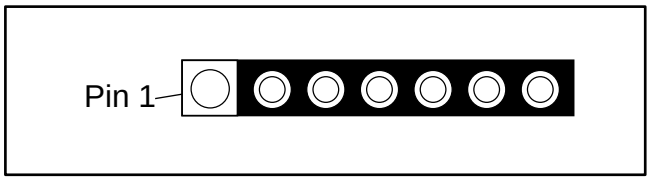
a. The output pin of the 3 pin Regulator ICs is indicated as shown.



b. For other ICs, pin 1 and every fifth pin are indicated as shown.

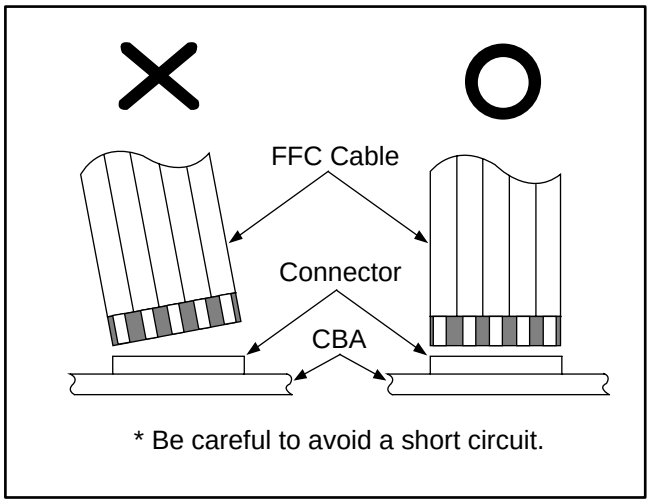


c. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

(1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

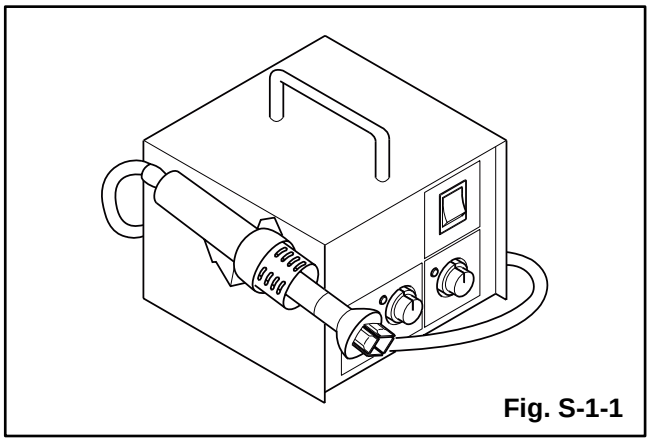


Fig. S-1-1

(2) Remove the flat pack-IC with tweezers while applying the hot air.

(3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)

(4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Caution:

1. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
2. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

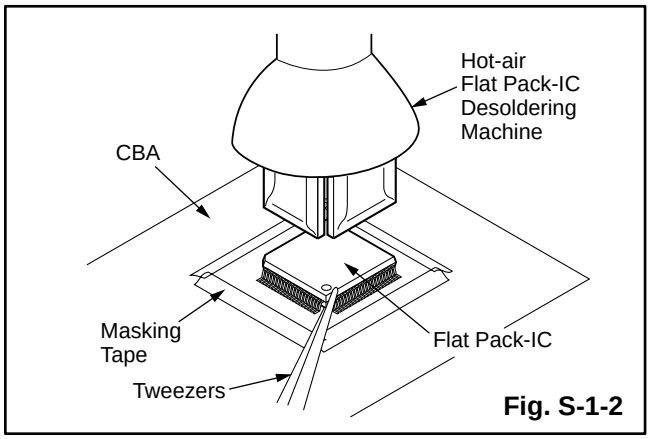


Fig. S-1-2

With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

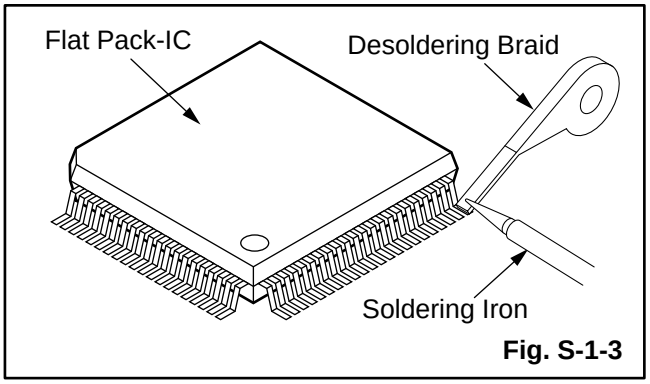


Fig. S-1-3

(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

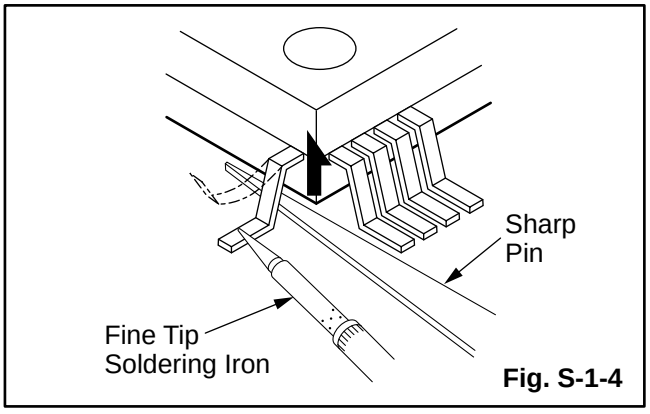


Fig. S-1-4

(3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
(4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
(2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
(3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
(4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up.
Then remove (glue will be melted). (Fig. S-1-6)
(5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note:

When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

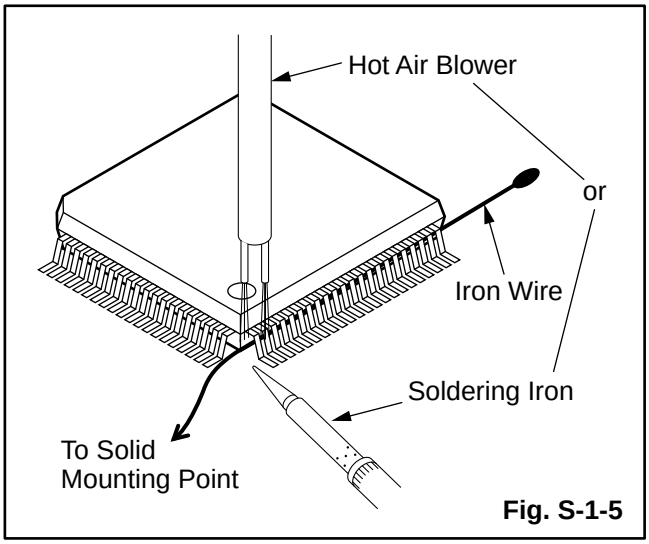


Fig. S-1-5

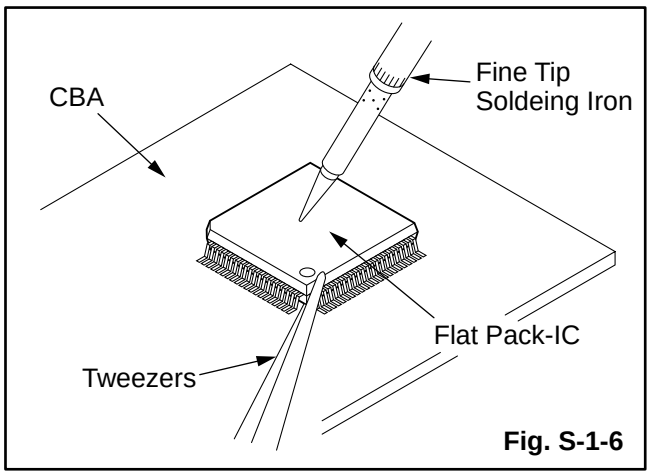


Fig. S-1-6

2. Installation

(1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
(2) The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
(3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

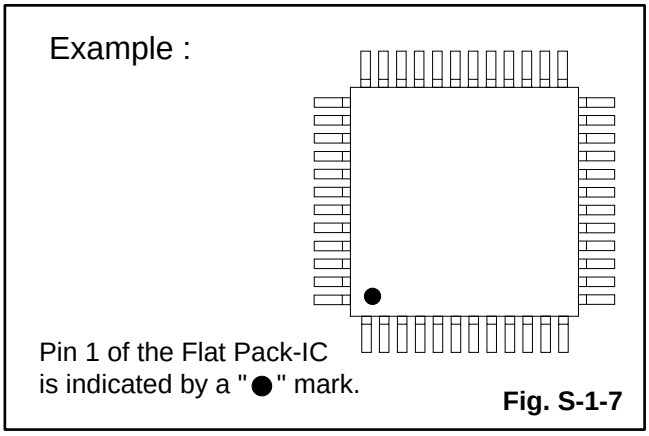


Fig. S-1-7

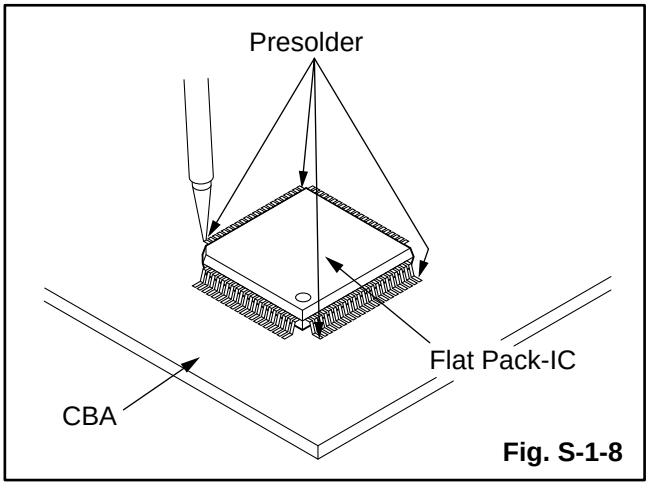


Fig. S-1-8

Instructions for Handling Semi-conductors

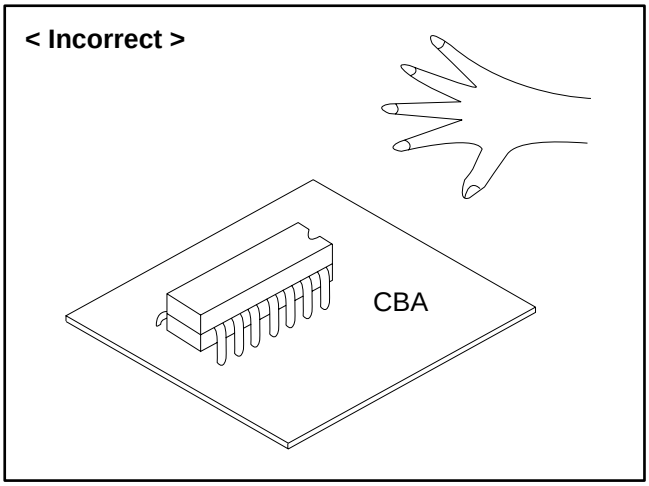
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

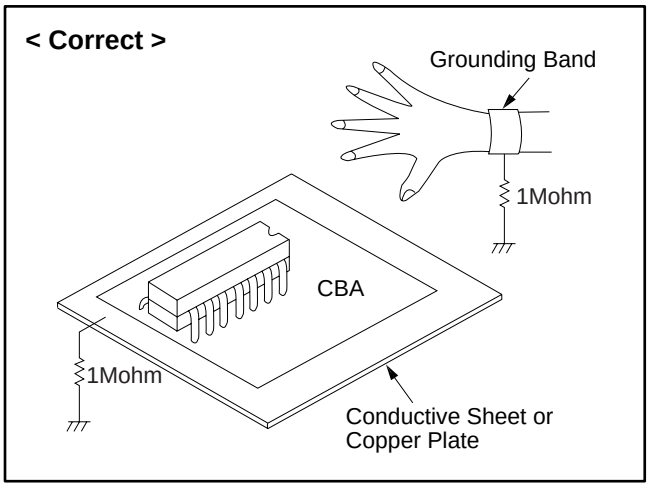
1. Ground for Human Body

Be sure to wear a grounding band (1 Mohm) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 Mohm) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

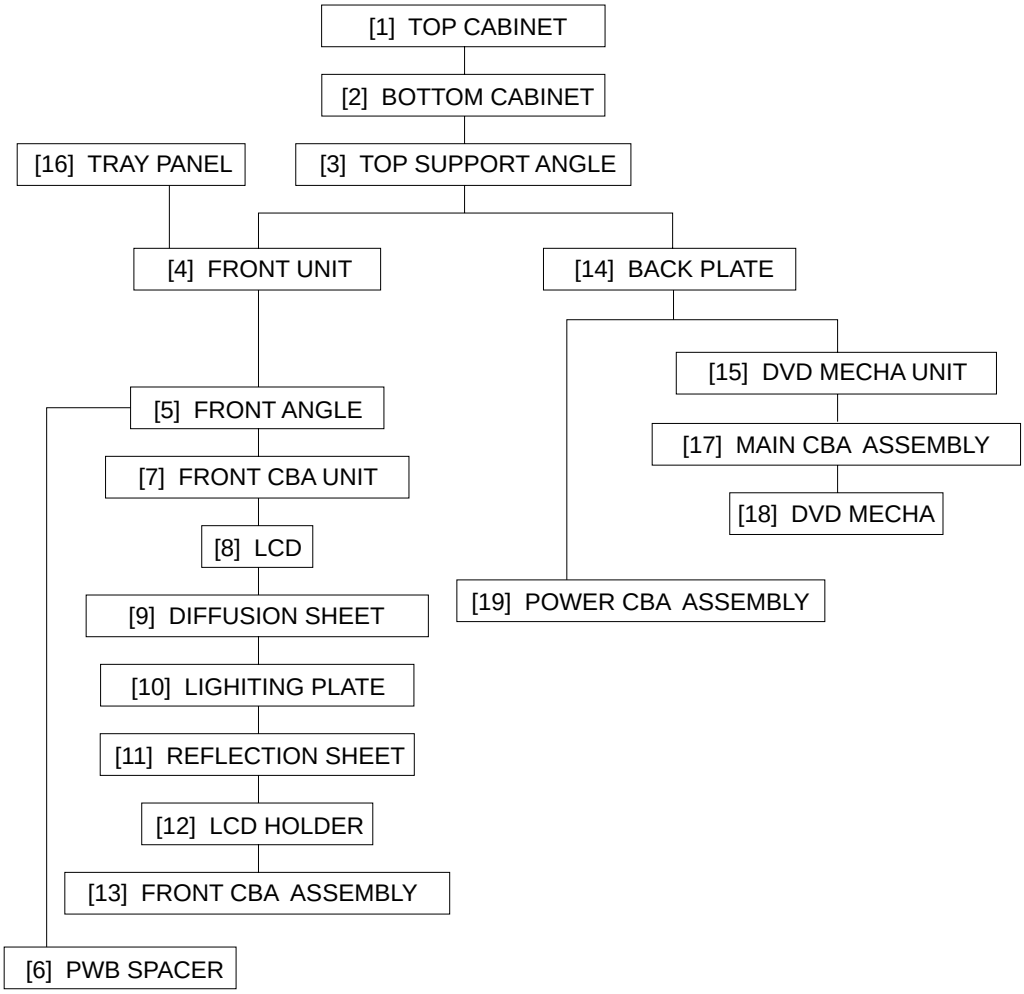




CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/ LOC. No.	PART	Fig. No.	REMOVAL	Note
[1]	TOP CABINET	C1	5(S-1)	—
[2]	BOTTOM CABINET	C1	2(S-2), 2(L-1), 2(S-2)	—
[3]	TOP SUPPORT ANGLE	C2	4(S-3)	—
[4]	FRONT UNIT	C2, C5	2(S-4), *CN1002	—
[5]	FRONT ANGLE	C3	(*CN2001), 4(S-5)	—
[6]	PWB SPACER	C3	*(L-2)	—
[7]	FRONT CBA UNIT	C3	4(S-6)	—
[8]	LCD	C4	Desolder, *2(L-3)	—
[9]	DIFFUSION SHEET	C4	—	—
[10]	LIGHTING PLATE	C4	—	—
[11]	REFLECTION SHEET	C4	—	—
[12]	LCD HOLDER	C4	*(L-4)	—
[13]	FRONT CBA ASSEMBLY	C4	—	—
[14]	BACK PLATE	C5	7(S-7)	—
[15]	DVD MECHA UNIT	C5	3(S-8), Jack Angle, *CN1001, *CN1003J, Erase Plate	—
[16]	TRAY PANEL	C5	*2(L-5)	—
[17]	MAIN CBA ASSEMBLY	C6, C7	4(S-9), *CN101, *CN4401, *CN303, *CN4402, *CN4403, Desolder	1
[18]	DVD MECHA	C6	—	—
[19]	POWER CBA ASSEMBLY	C8	4(S-10), Insulation Sheet	—
↑ ①	↑ ②	↑ ③	↑ ④	↑ ⑤

① : Identification (location) No. of parts in the figures
② : Name of the part
③ : Figure Number for reference
④ : Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P=Spring, L=Locking Tab, S=Screw,
CN=Connector,
*=Unhook, Unlock, Release, Unplug, or Desolder
e.g. 5(S-1) = five Screws (S-1),
2(L-2) = two Locking Tabs (L-2)
⑤ : Refer to "Reference Notes."

Reference Notes:

CAUTION 1: When reassembling, connect the motor cable to the Main CBA assembly correctly as shown in Fig. C7.

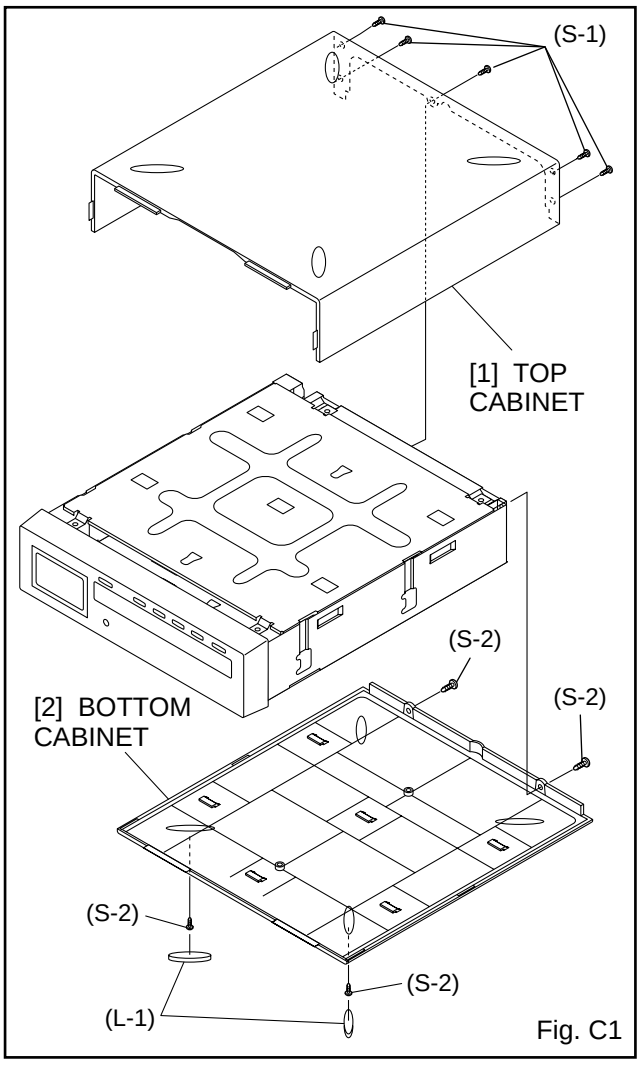


Fig. C1

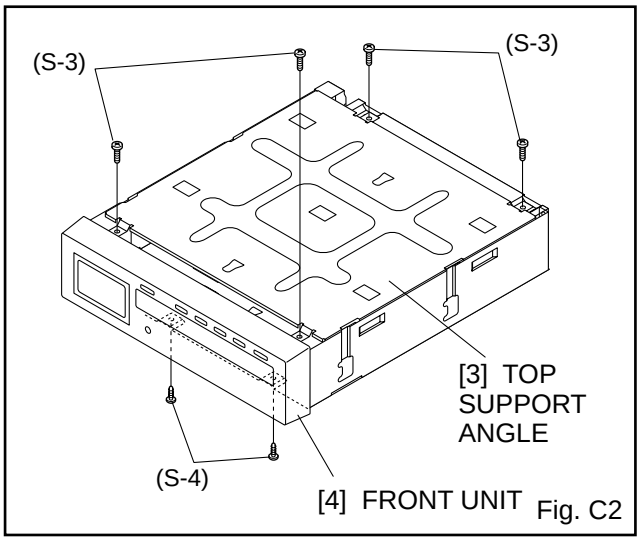


Fig. C2

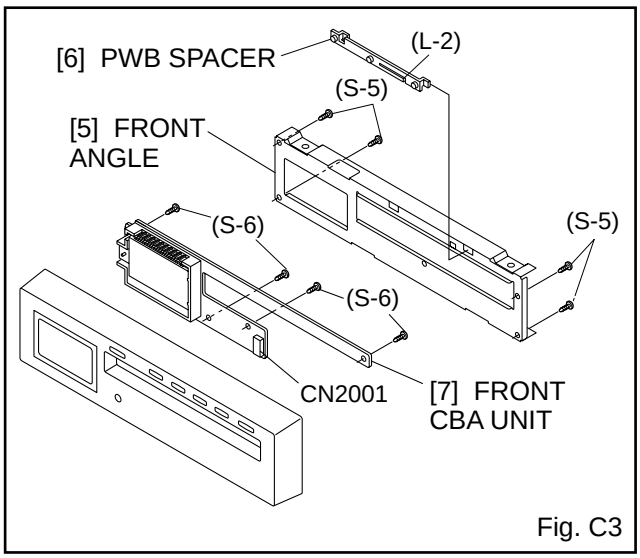


Fig. C3

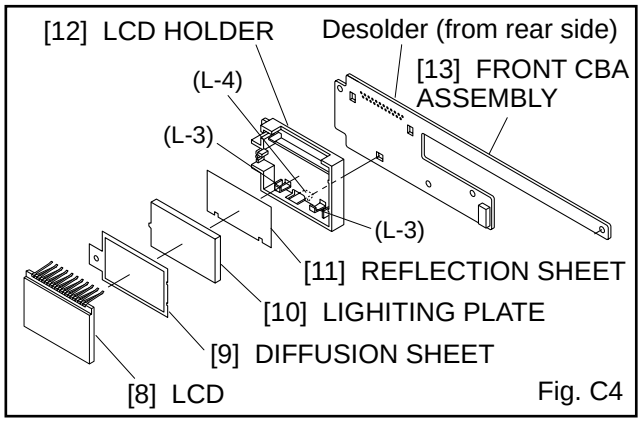


Fig. C4

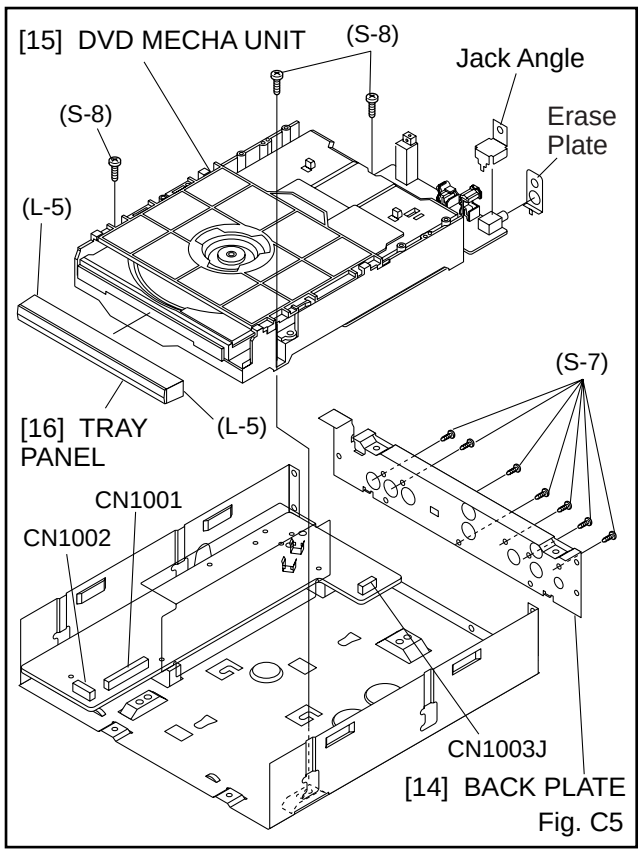


Fig. C5

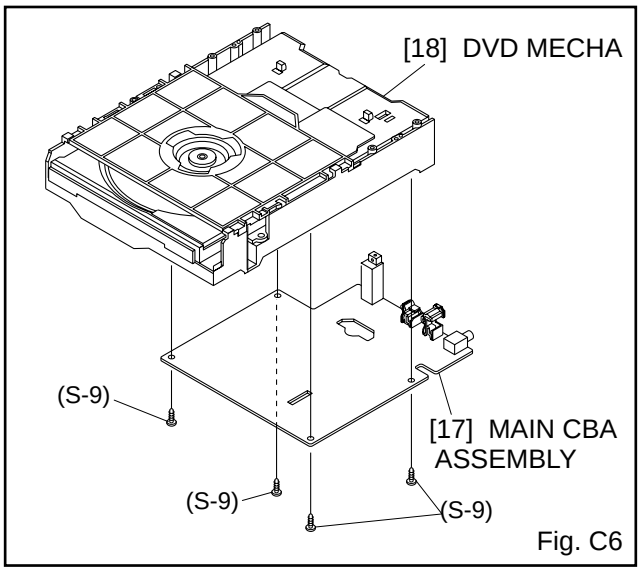


Fig. C6

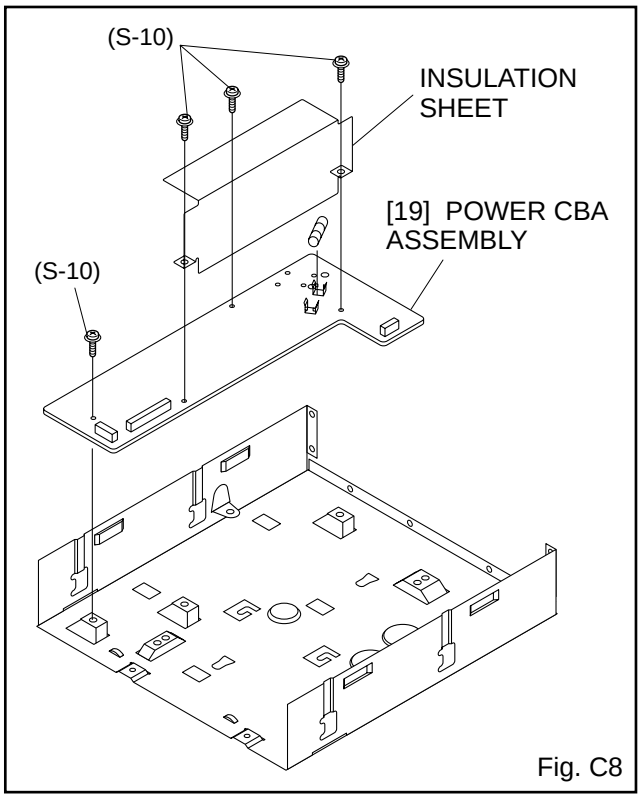


Fig. C8

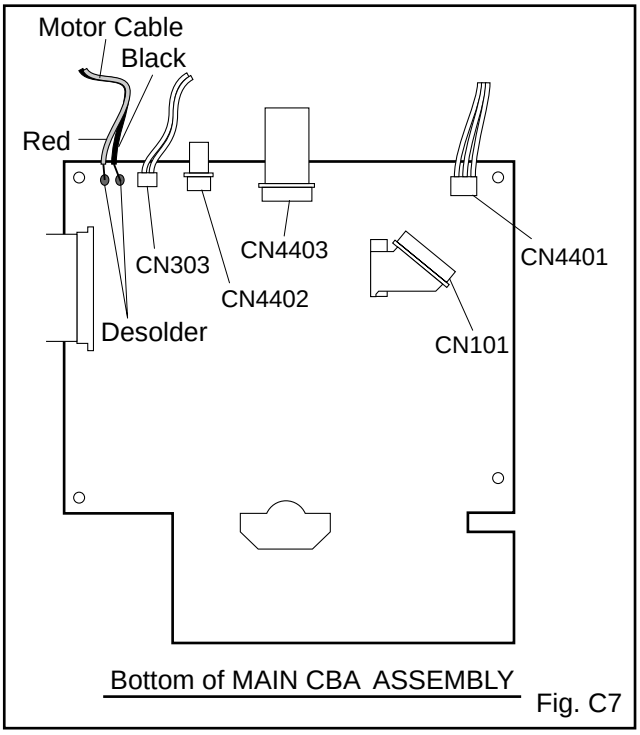
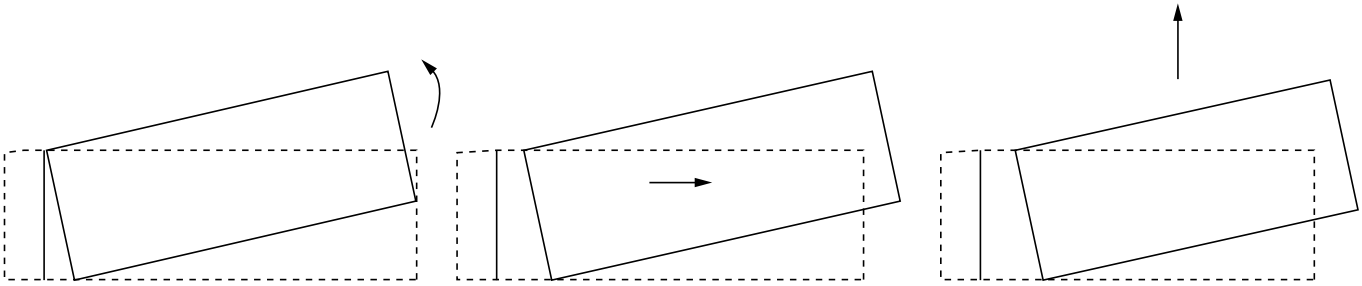


Fig. C7

ADDITIONAL DESCRIPTION

Disassembling the top cabinet

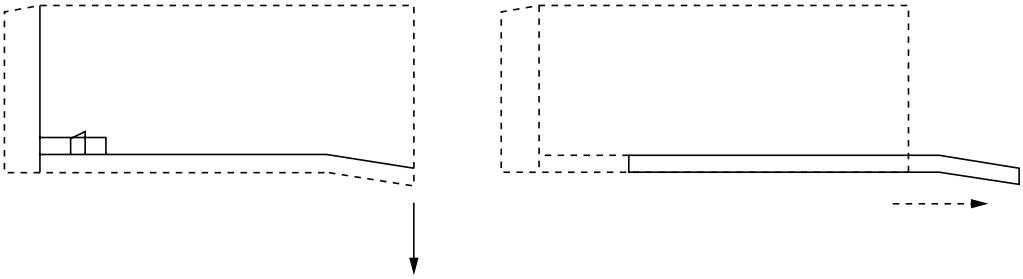
1. Remove the 5 screws on the backside.
2. Raise the rear end by approx. 10 mm,
3. Slide it backward by approx. 5 mm and raise it to remove.



Disassembling the bottom cabinet

• Notice that the bottom cabinet can be removed only when the top cabinet is removed.

1. Remove the 2 screws on the backside.
2. Remove the forward rubber cushions (2 cushions),
3. Remove the 2 screws underneath the removed 2 cushions.
4. Hold up the rear end by approx. 5 mm and slide it backward to remove.

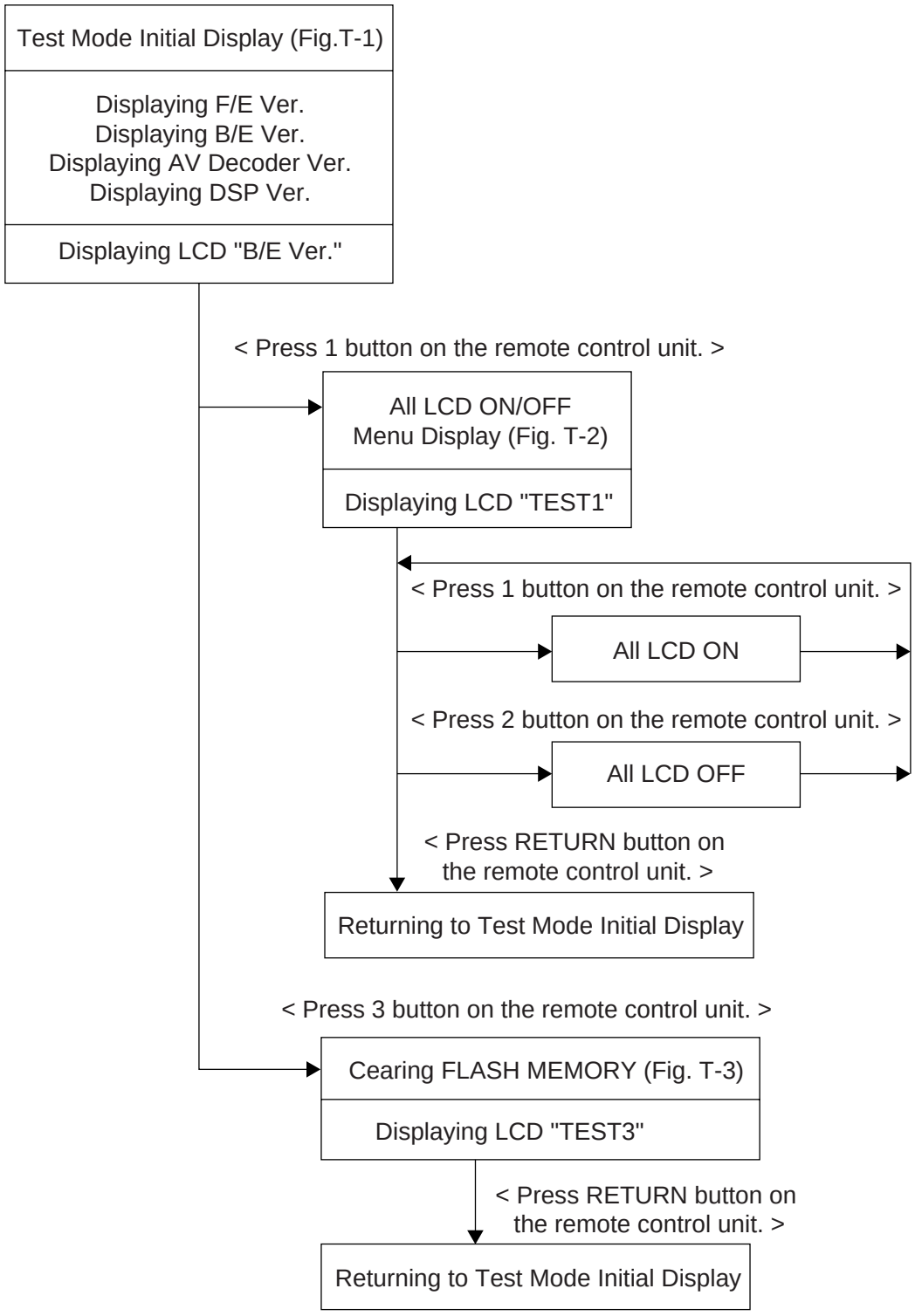


TEST MODE

Test Mode	A power source is put, and [1], [2], [3], [4], and [ON SCREEN] buttons on the remote control unit are pushed in that order while the tray is opening or after the “NO DISC” display at the same time.
ROM Renewal Mode	A power source is put, and [9], [8], [7], [6], and [DIRECT SKIP] buttons on the remote control unit are pushed in that order while the tray is opening or after the “NO DISC” display at the same time.

[TEST MODE]

Test Mode Flow Chart



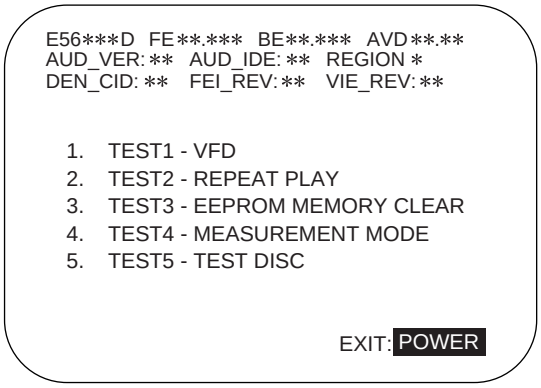


Fig. T-1: Test Mode Initial Display

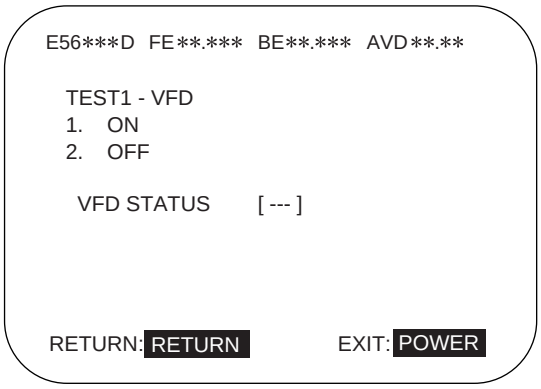


Fig. T-2: All LCD ON/OFF Menu Display

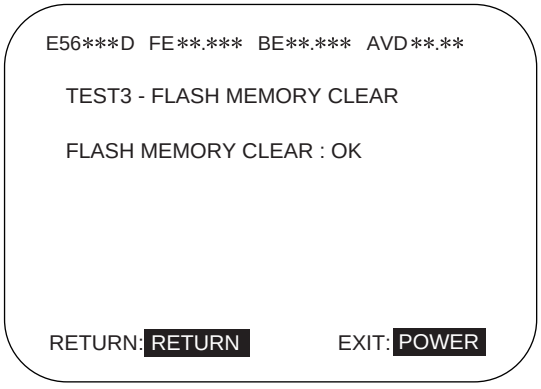


Fig. T-3: Clearing FLASH MEMORY Display

[ROM RENEWAL MODE]

1. Turn the power on and remove the disc on the tray.
2. To put the DVD player into version up mode, press [9], [8], [7], [6], and [DIRECT SKIP] buttons on the remote control unit in that order. The tray will open automatically.
   Fig. a appears on the screen and Fig. b appears on the LCD.

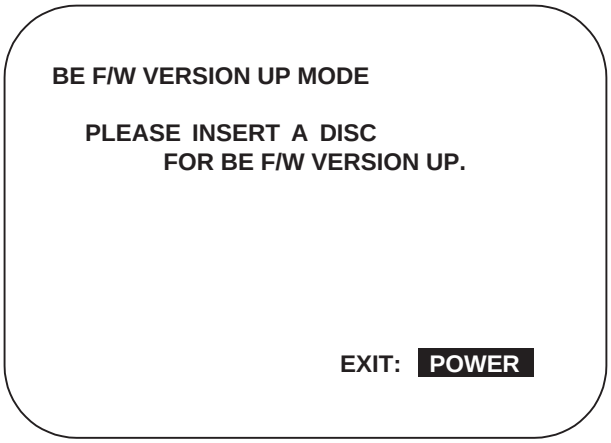


Figure a Version Up Mode Screen

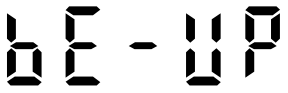


Figure b LCD in Version Up Mode

   The DVD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.
3. Load the disc for version up. (For closing the tray, only the "OPEN/CLOSE" button is available.)
4. The DVD player enters the F/W version up mode automatically. Fig. c appears on the screen and Fig. d appears on the LCD.

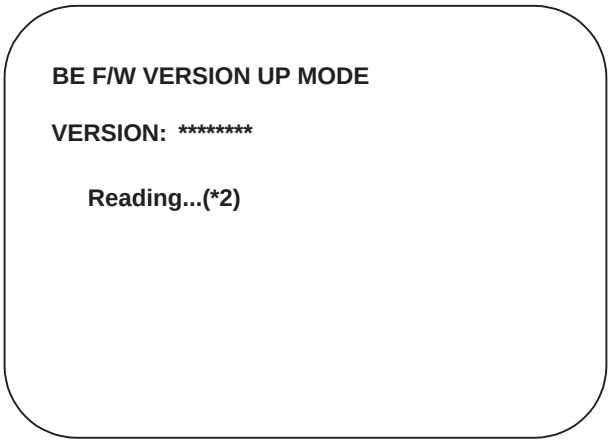


Figure c Programming Mode Screen

Figure d LCD in Programming Mode (Example)

The appearance shown in (*2) of Fig. c is described as follows:

No.	Appearance	State
1	Reading...	Sending files into the memory
2	Erasing...	Erasing previous version data
3	Programming...	Writing new version data

5. After programming is finished, the tray opens automatically. Fig. e appears on the screen and the checksum in (*3) of Fig. e appears on the LCD. (Fig. f)

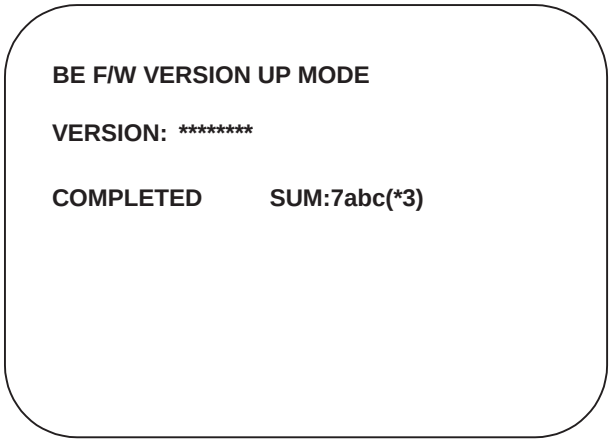


Figure e Completed Program Mode Screen

Figure f
LCD upon Finishing the Programming Mode (Example)

   At this time, no buttons are available.
6. For tray opening, plug the AC cord into the AC outlet.
7. Turn the power on by pressing the power button and the tray will close.

[ERROR RATE MEASUREMENT]

1. Turn the power on, remove the disc from the tray and close the tray.
2. To put the DVD player into test mode, press [1], [2], [3], [4], and [ON SCREEN] buttons on the remote control unit in that order.
   Fig. a will appear on the screen and the current B/E version will appear on the LCD. (Fig. b)

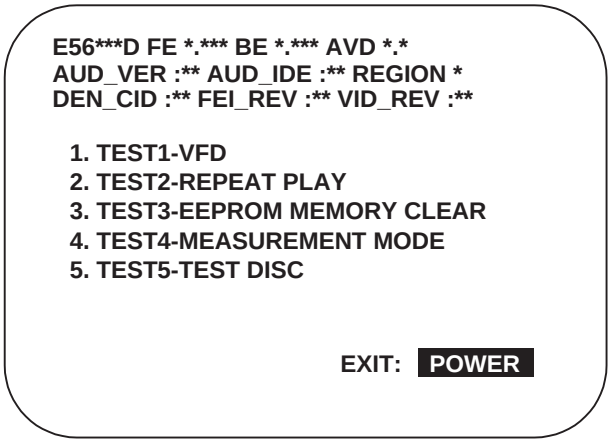


Figure a Test Mode Screen

Figure b LCD in Test Mode

3. To select No. 4 "TEST4-MEASUREMENT MODE," press button [4] on the remote control unit.
   Fig. c will appear on the screen and Fig. d will appear on the LCD.

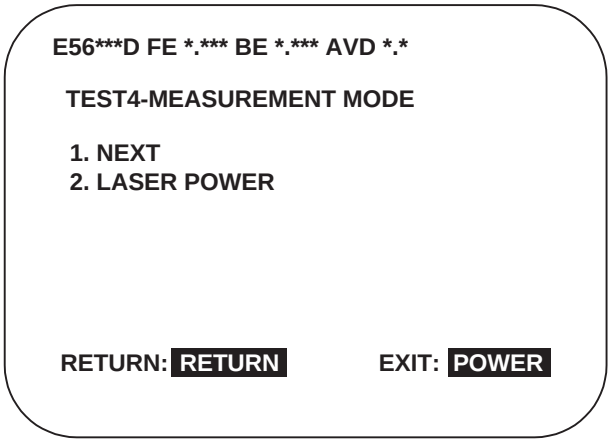


Figure c TEST4-MEASUREMENT MODE Screen

Figure d LCD in TEST4-MEASUREMENT MODE

4. To select No. 1 "NEXT," press button [1] on the remote control unit.
   Fig. e will appear on the screen. LCD will not change.

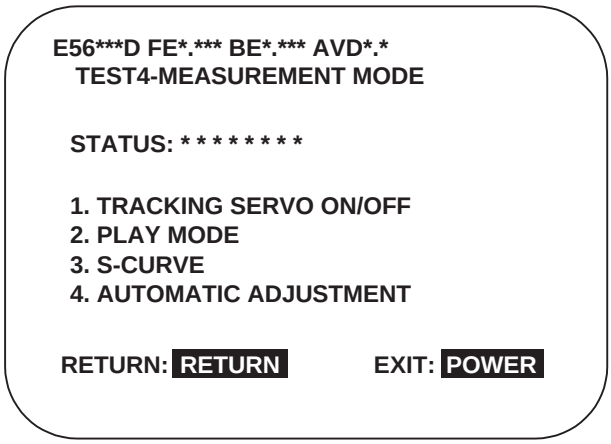


Figure e Next Mode Screen

5. To select No. 2 "PLAY MODE," press button [2] on the remote control unit.
   The screen will not change and the unit open the tray automatically. LCD will not change.
6. Load the disc to measure the error rate and press [OPEN/CLOSE] button or [PLAY] button. The unit will close the tray automatically and fig. f will appear on the screen.

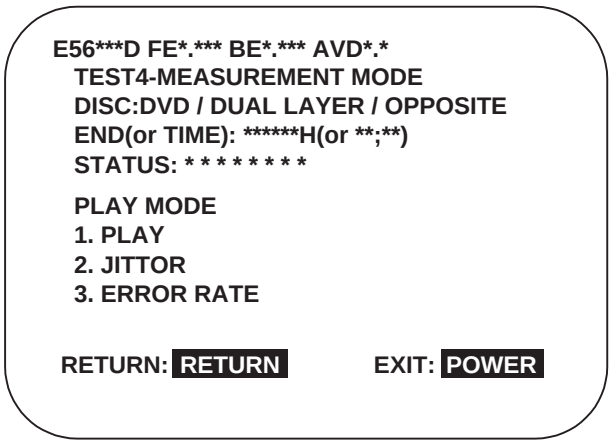
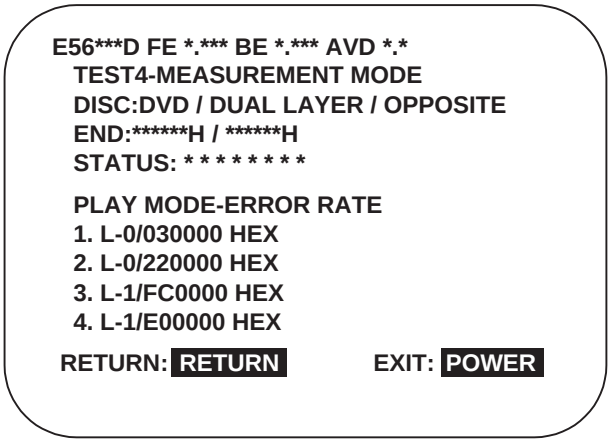
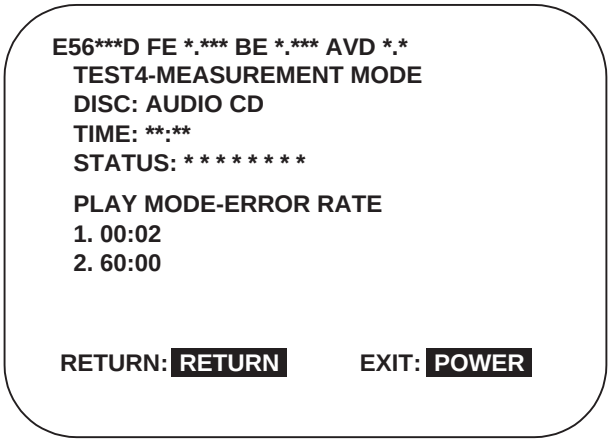


Figure f Play Mode Screen

7. To select No. 3 "ERROR RATE," press button [3] on the remote control unit.
   Fig. g will appear on the screen and Fig. d will appear on the LCD.



(I) When loading DVD



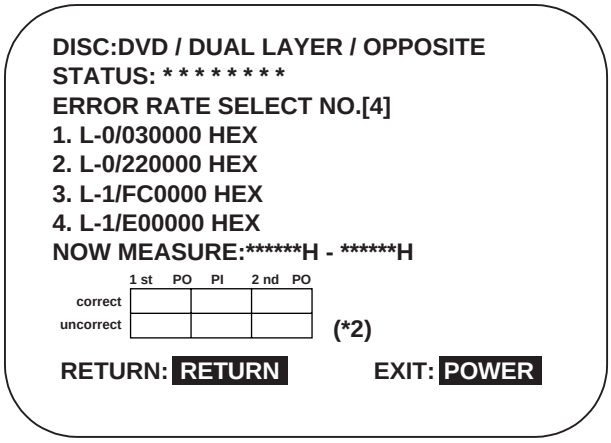
(II) When loading CD/VCD

Figure g Error Rate Mode Screen

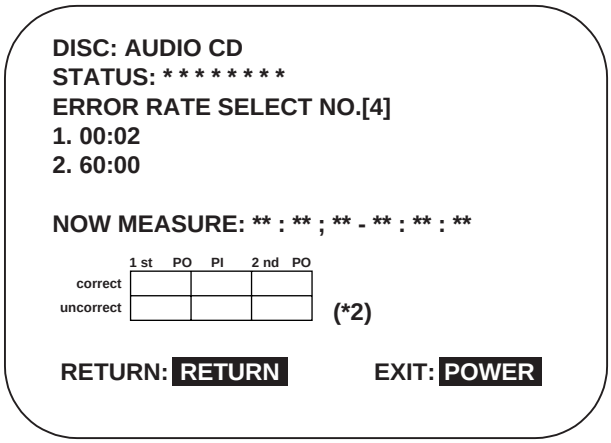
In "PLAY MODE-ERROR RATE" of fig. g, each item means the following:

1. Inner circumference of loaded disc
   (on DVD: inner circumference of layer 0)
2. Outer circumference of loaded disc
   (on DVD: outer circumference of layer 0)
3. Outer circumference of layer 1 on loaded disc
   (on DVD only: when in parallel, inner circumference)
4. Inner circumference of layer 1 on loaded disc
   (on DVD only: when in parallel, outer circumference)
   In some cases, items 2,3 and 4 may not be shown on the screen depending on the content of the loaded disc.

8. Select the address where the error rate is to be measured using number buttons on the remote control unit.
   Fig. h will appear on the screen. In table (*2), the screen will show for each 80ECC block, the number of errors corrected on the 1st PO/PI/2nd PO and the number of uncorrected errors.



(I) when loading DVD



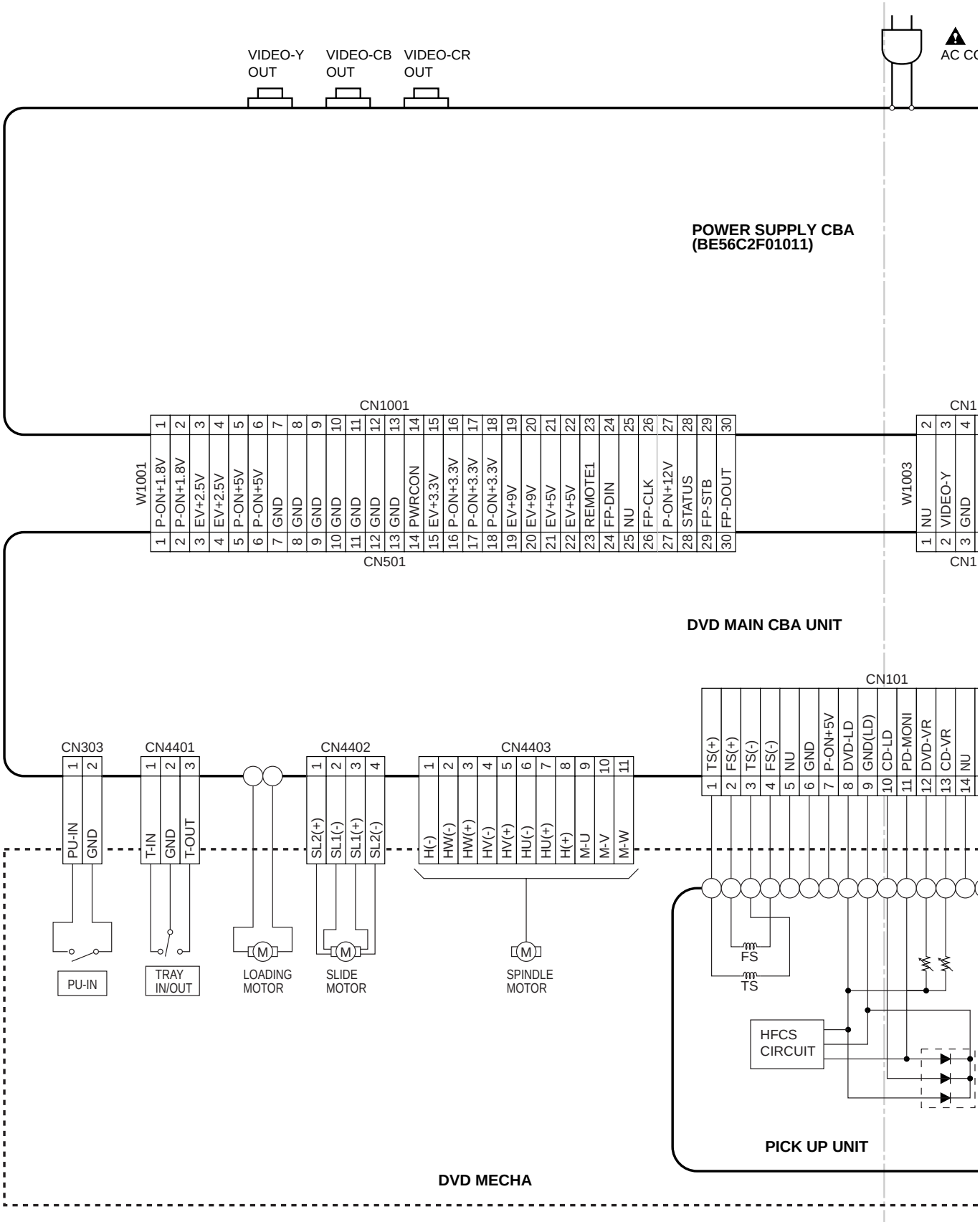
(II) when loading CD/VCD

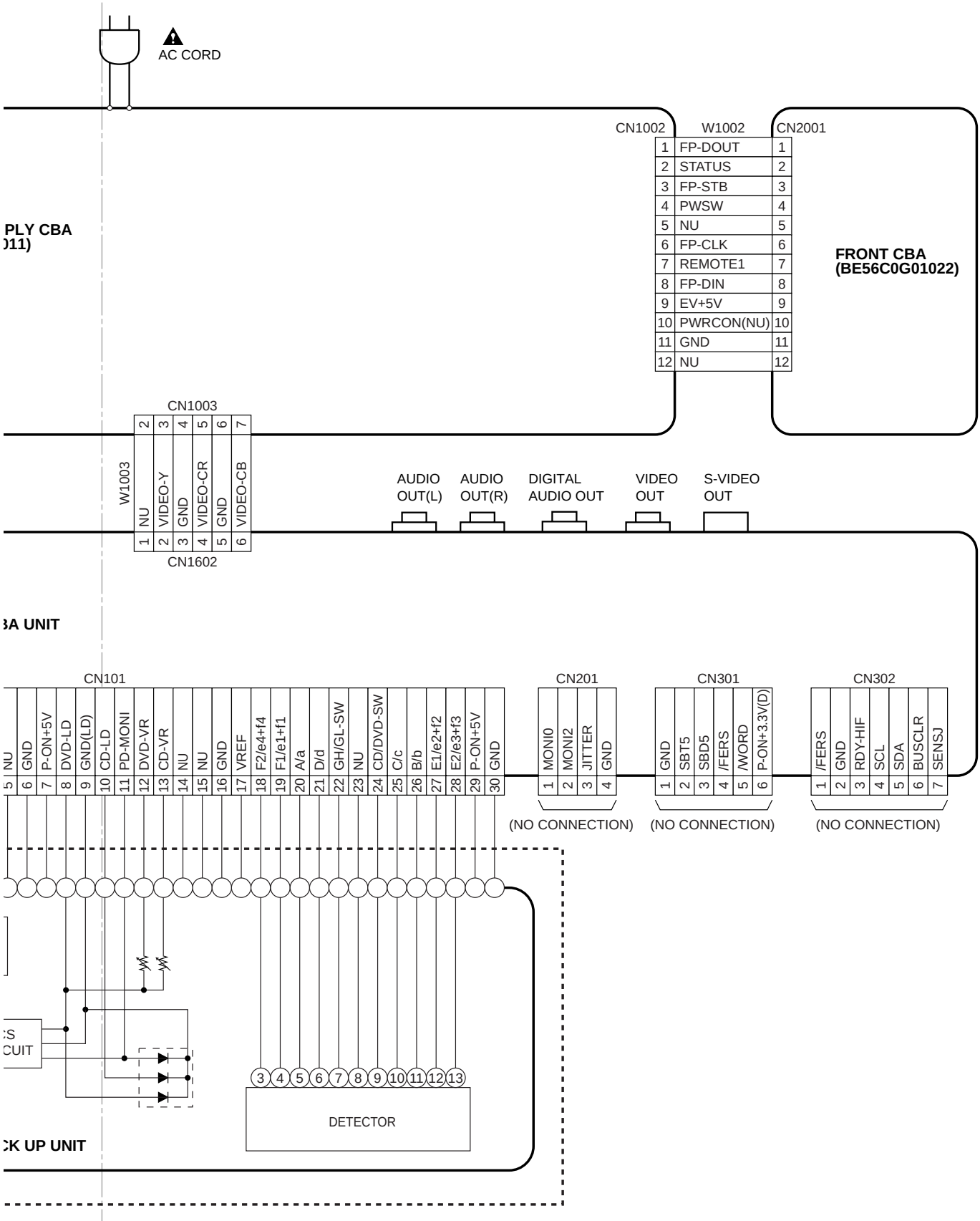
Figure h Measuring Error Rate Mode Screen

Figure i LCD in Measuring Error Rate Mode (example)

9. To finish measuring the error rate, remove the disc and turn the power off.

WIRING DIAGRAM




AC CORD
CN1002
W1002
CN2001
1 FP-DOUT 1
2 STATUS 2
3 FP-STB 3
4 PWSW 4
5 NU 5
6 FP-CLK 6
7 REMOTE1 7
8 FP-DIN 8
9 EV+5V 9
10 PWRCON(NU) 10
11 GND 11
12 NU 12
FRONT CBA
(BE56C0G01022)
PLY CBA
011)
CN1003
W1003
2 3 4 5 6 7
NU VIDEO-Y GND VIDEO-CR GND VIDEO-CB
1 2 3 4 5 6
CN1602
AUDIO OUT(L)
AUDIO OUT(R)
DIGITAL AUDIO OUT
VIDEO OUT
S-VIDEO OUT
BA UNIT
CN101
5 NU
6 GND
7 P-ON+5V
8 DVD-LD
9 GND(LD)
10 CD-LD
11 PD-MONI
12 DVD-VR
13 CD-VR
14 NU
15 NU
16 GND
17 VREF
18 F2/e4+f4
19 F1/e1+f1
20 A/a
21 D/d
22 GH/GL-SW
23 NU
24 CD/DVD-SW
25 C/c
26 B/b
27 E1/e2+f2
28 E2/e3+f3
29 P-ON+5V
30 GND
CN201
1 MONI0
2 MONI2
3 JITTER
4 GND
(NO CONNECTION)
CN301
1 GND
2 SBT5
3 SBD5
4 /FERS
5 /MORD
6 P-ON+3.3V(D)
(NO CONNECTION)
CN302
1 /FERS
2 GND
3 RDY-HIF
4 SCL
5 SDA
6 BUSCLR
7 SENSJ
(NO CONNECTION)
3 4 5 6 7 8 9 10 11 12 13
DETECTOR
CK UP UNIT

System Control Block Diagram

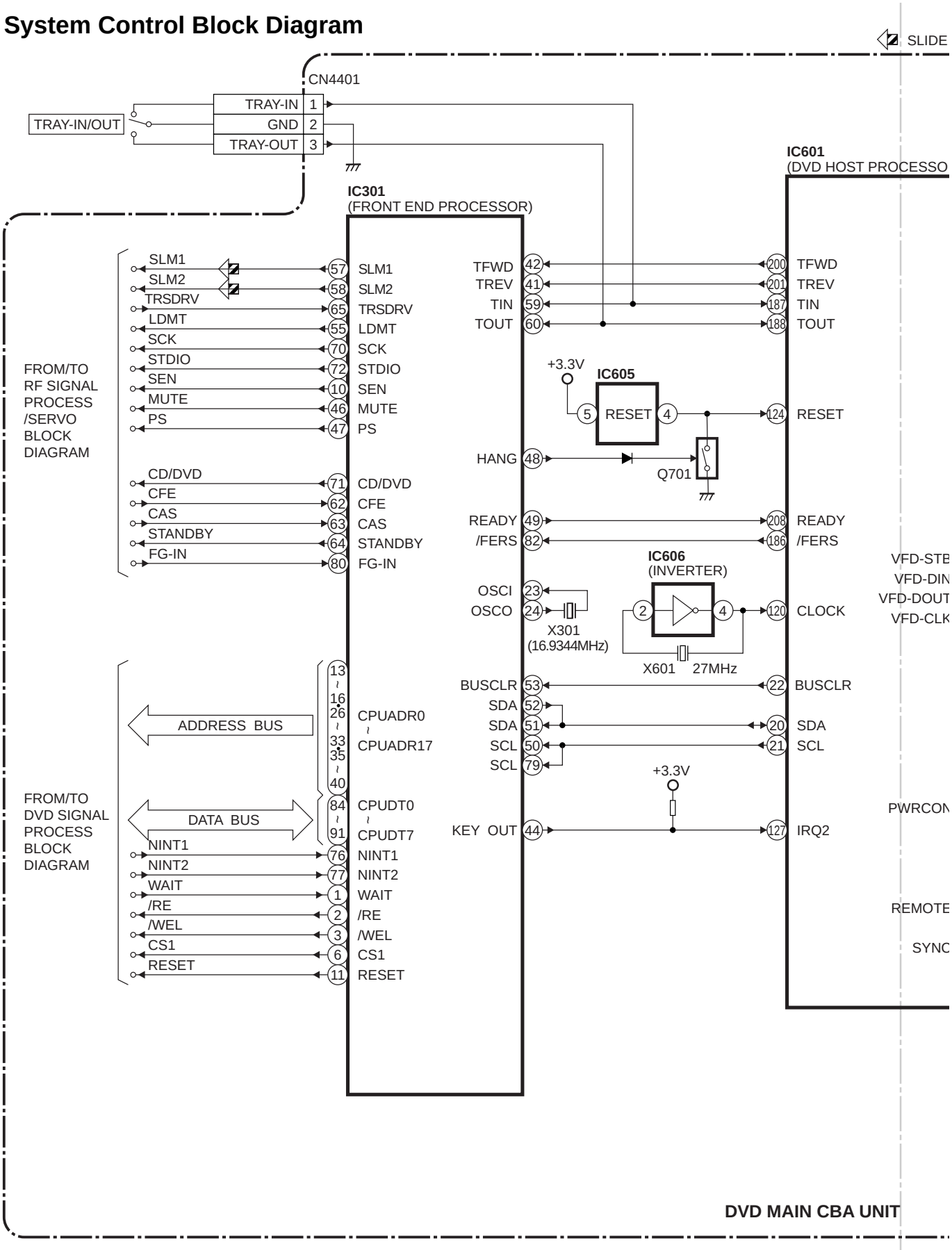


Figure 22 BLOCK DIAGRAM (1/12)

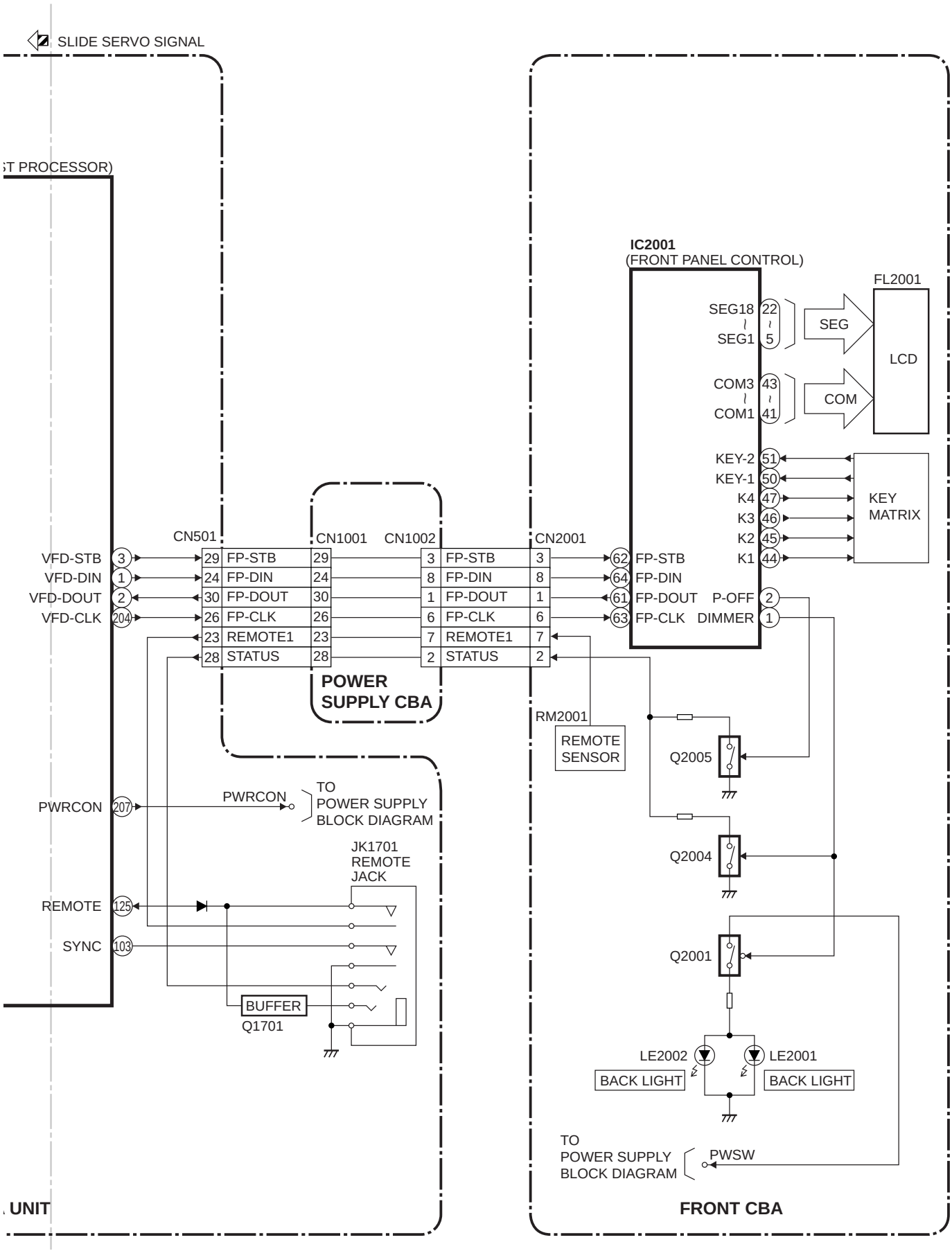


Figure 23 BLOCK DIAGRAM (2/12)

RF Signal Process/Servo Block Diagram

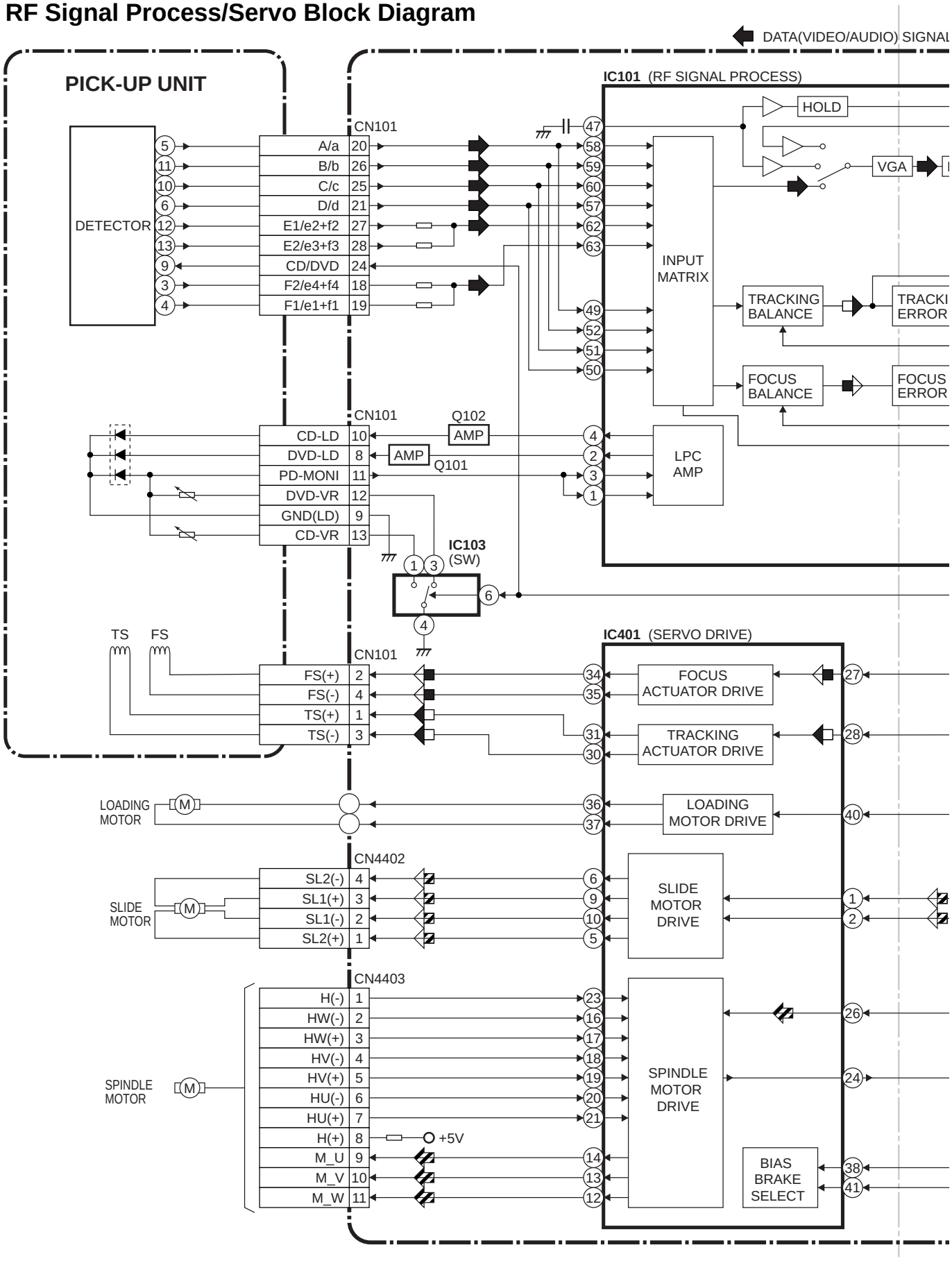


Figure 24 BLOCK DIAGRAM (3/12)

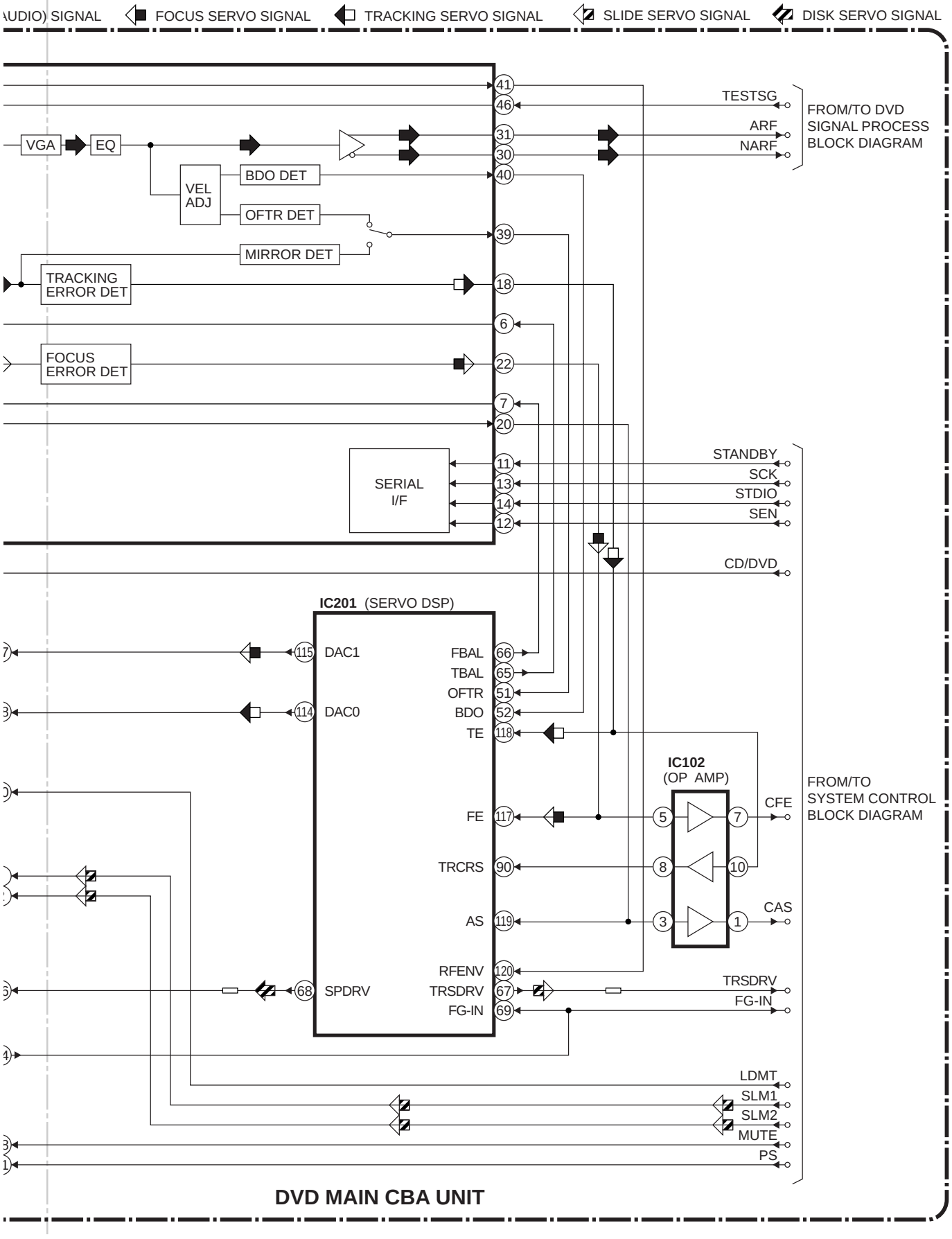


Figure 25 BLOCK DIAGRAM (4/12)

DVD Signal Process Block Diagram

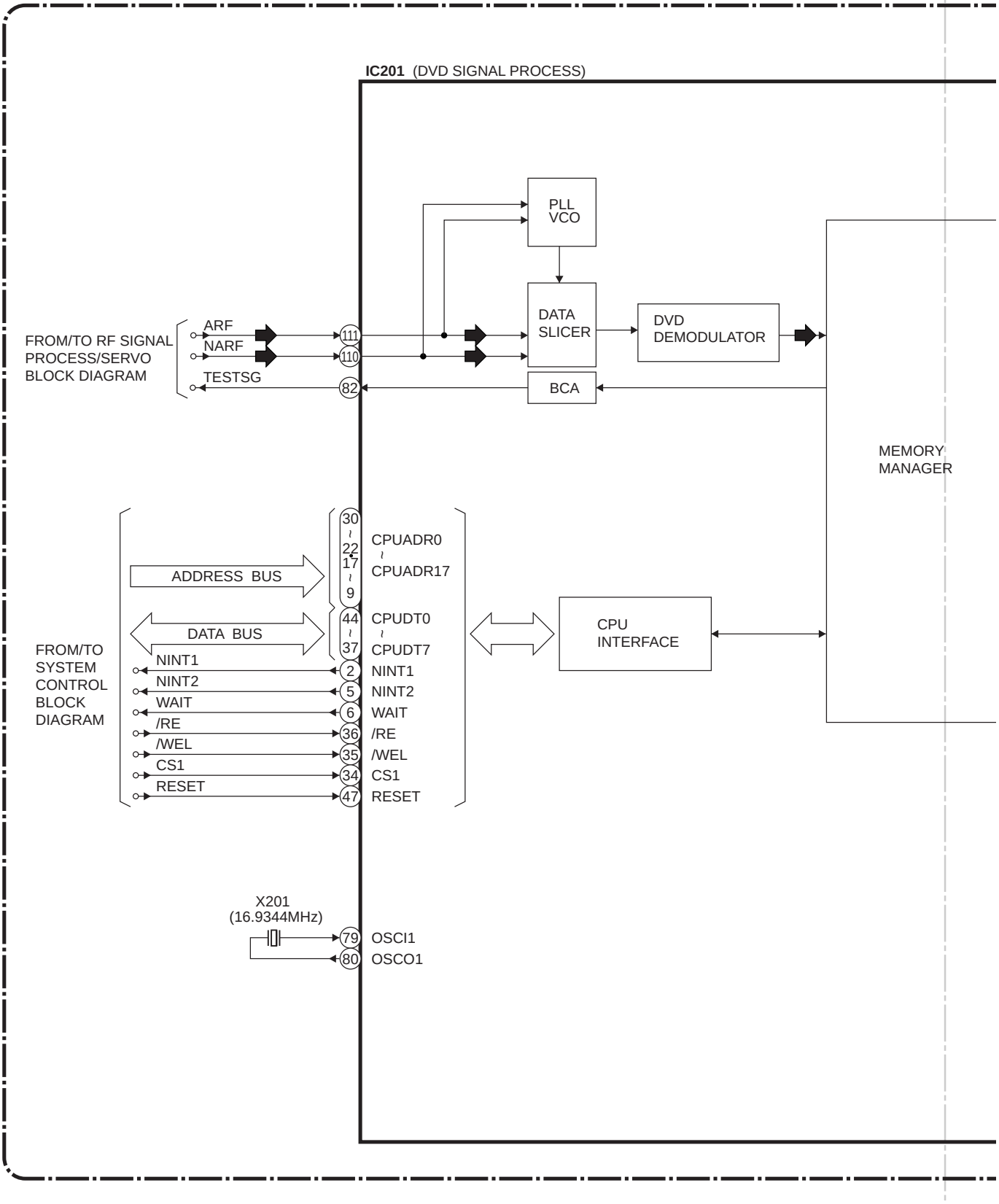


Figure 26 BLOCK DIAGRAM (5/12)

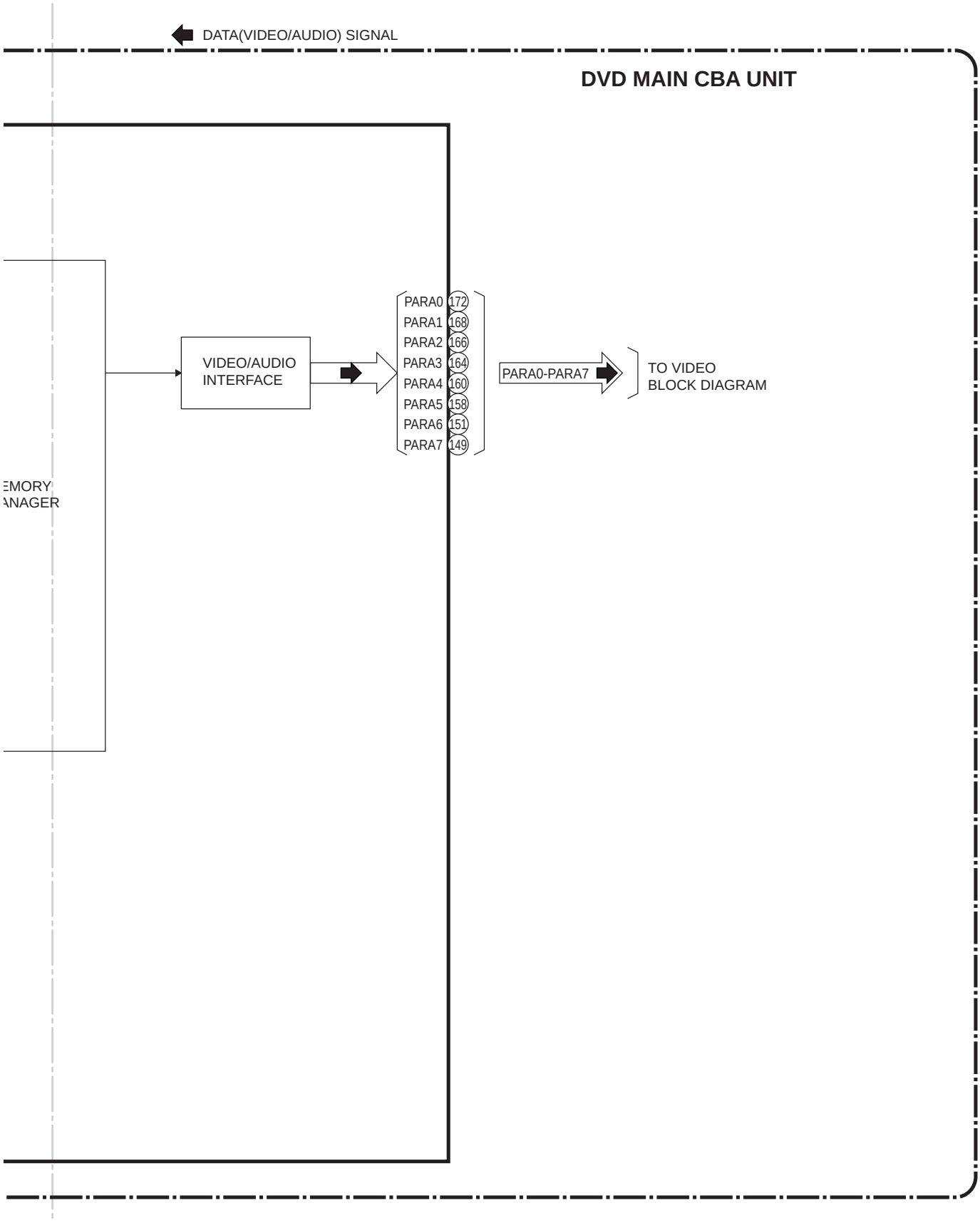


Figure 27 BLOCK DIAGRAM (6/12)

Video Block Diagram

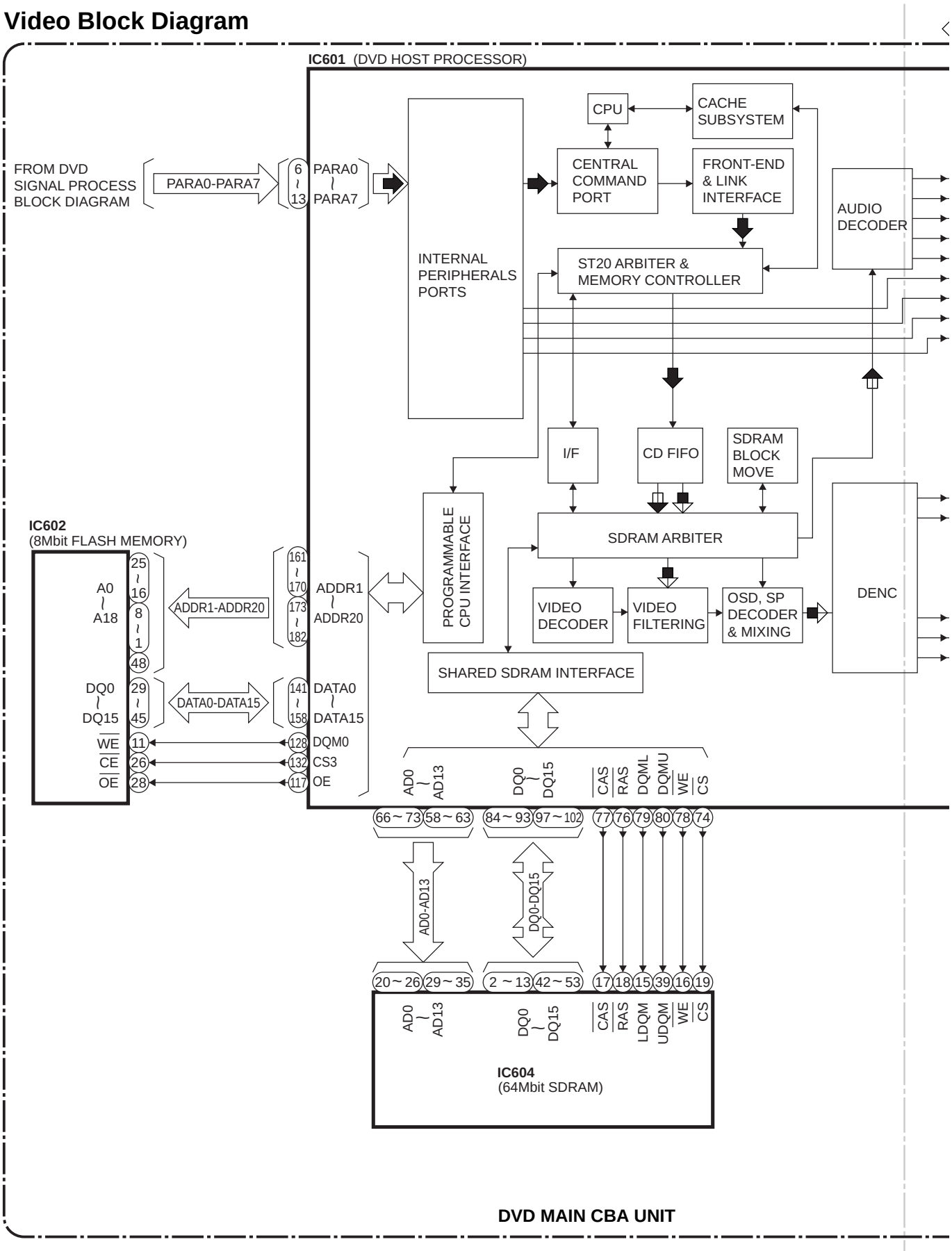


Figure 28 BLOCK DIAGRAM (7/12)

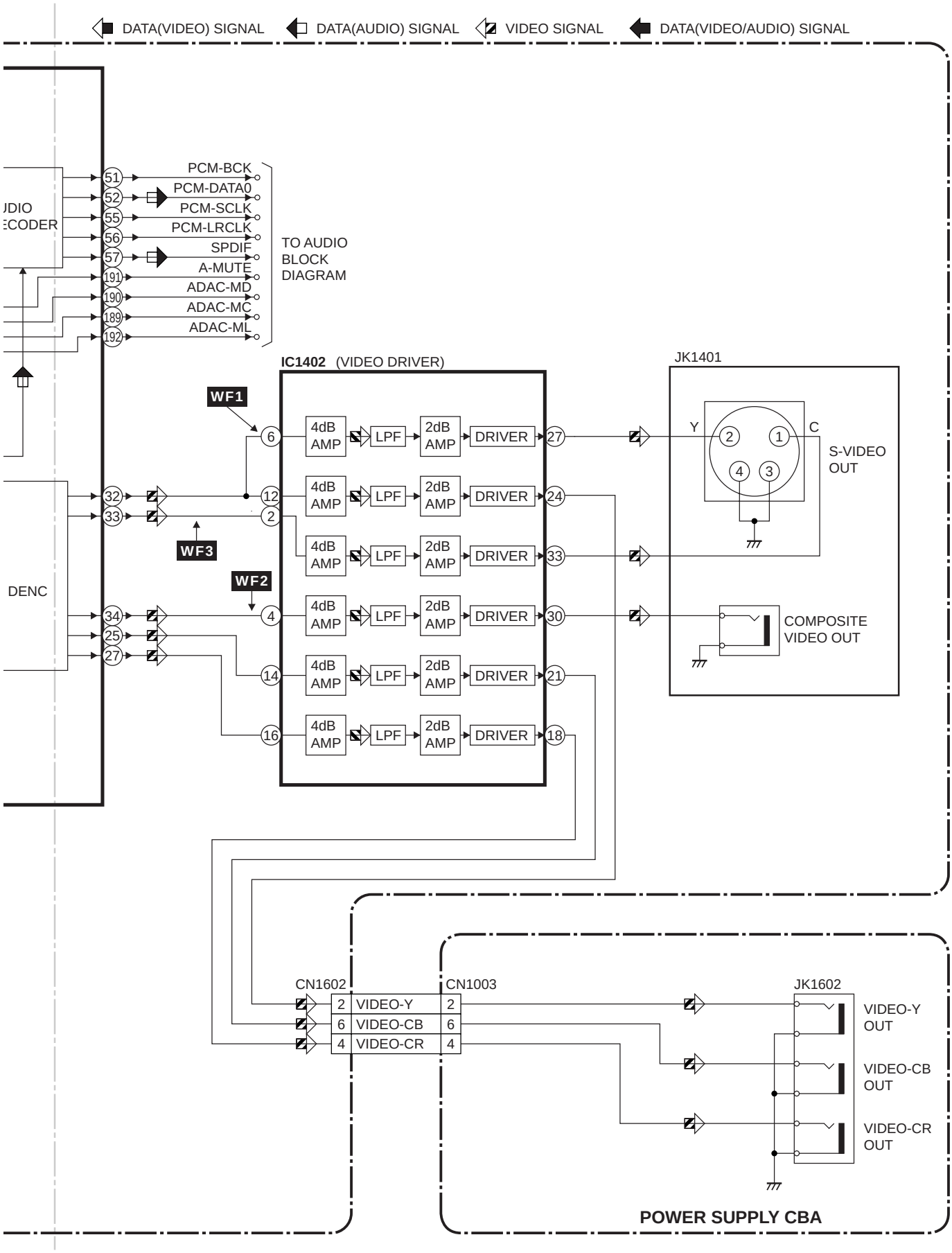


Figure 29 BLOCK DIAGRAM (8/12)

Audio Block Diagram

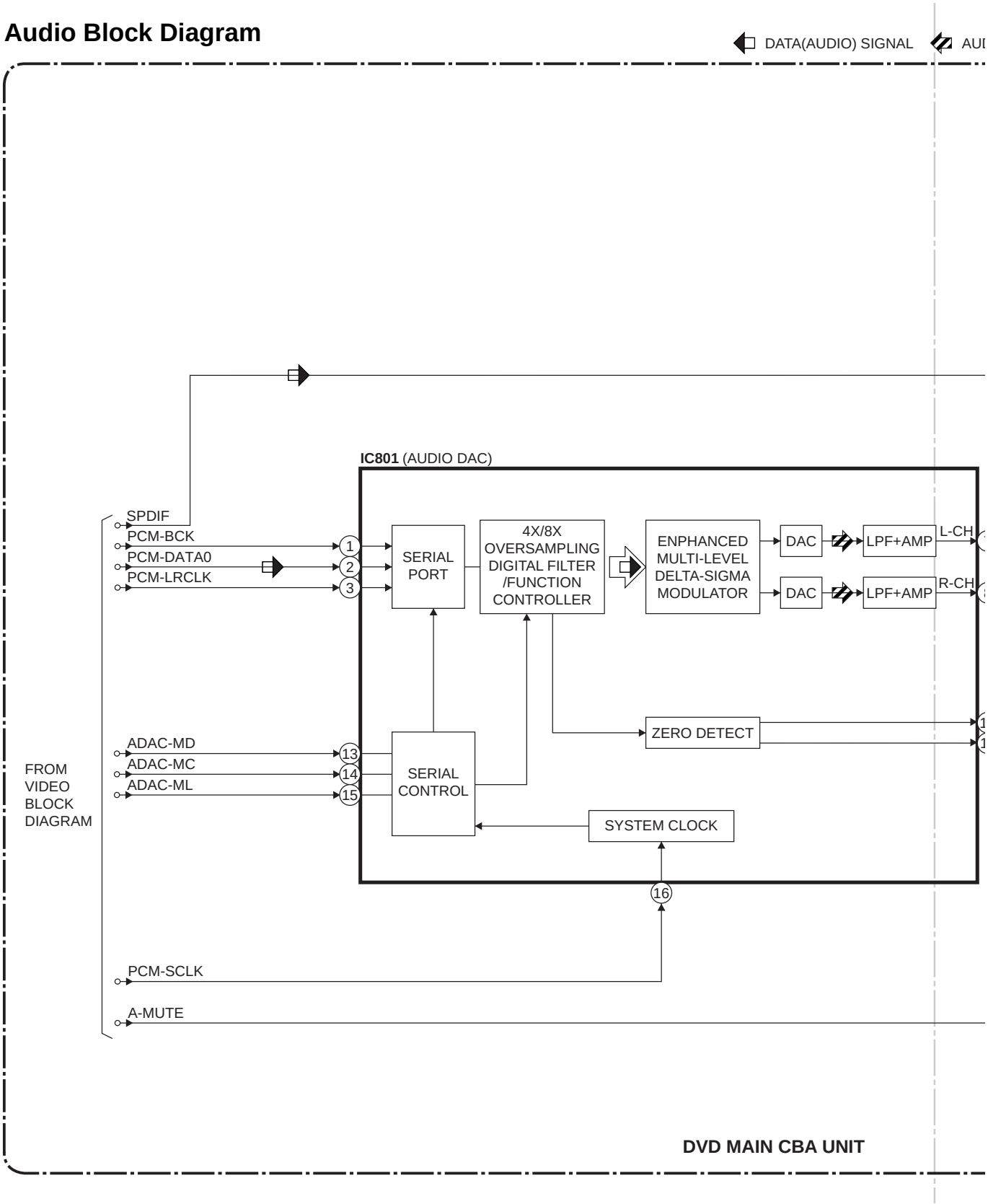


Figure 30 BLOCK DIAGRAM (9/12)

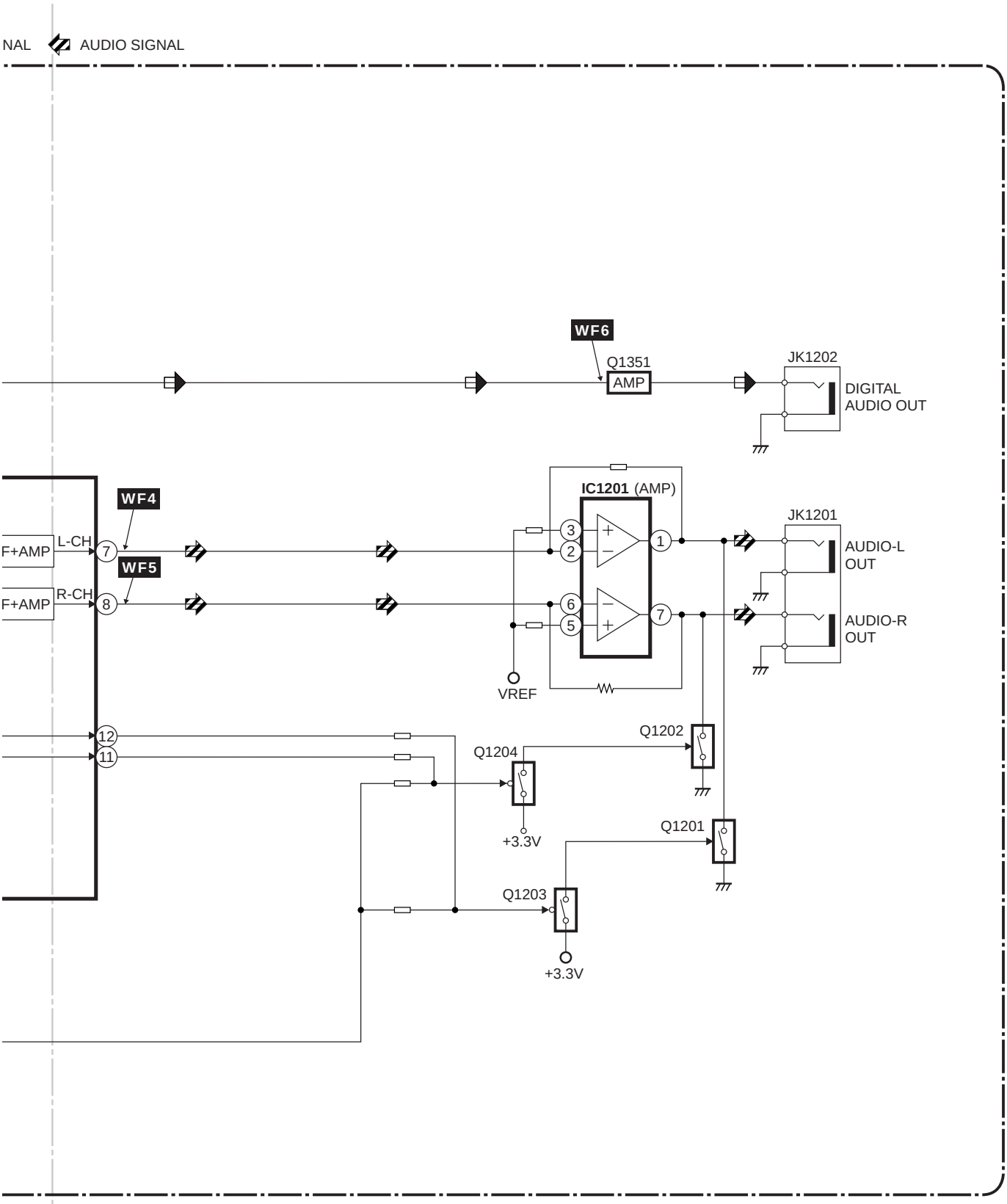


Figure 31 BLOCK DIAGRAM (10/12)

Power Supply Block Diagram

CAUTION !
Switching power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply cir cuit to fail.

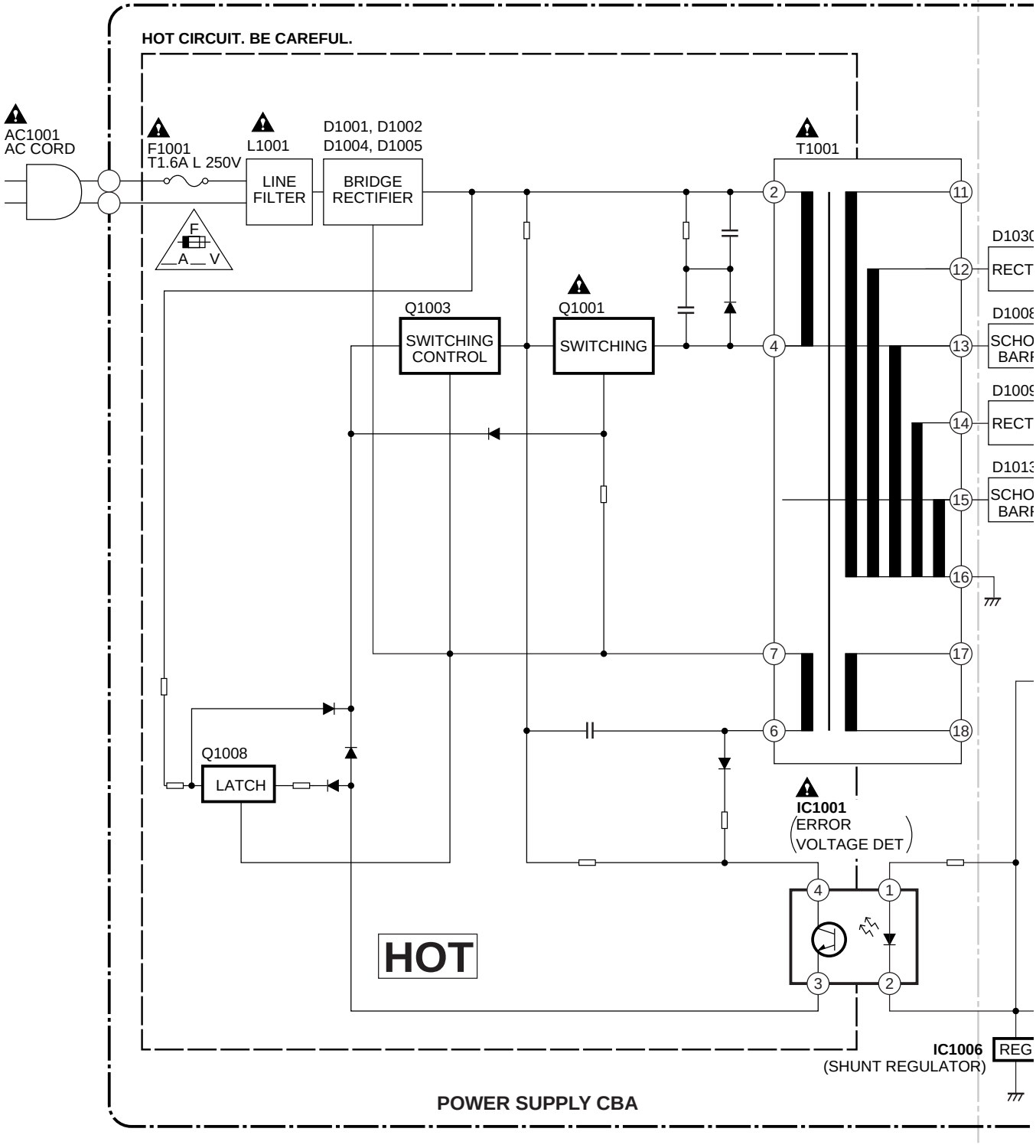


Figure 32 BLOCK DIAGRAM (11/12)

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE T1.6A L 250V FUSE.

NOTE :
The voltage for parts in hot circuit is measured using
hot GND as a common terminal.

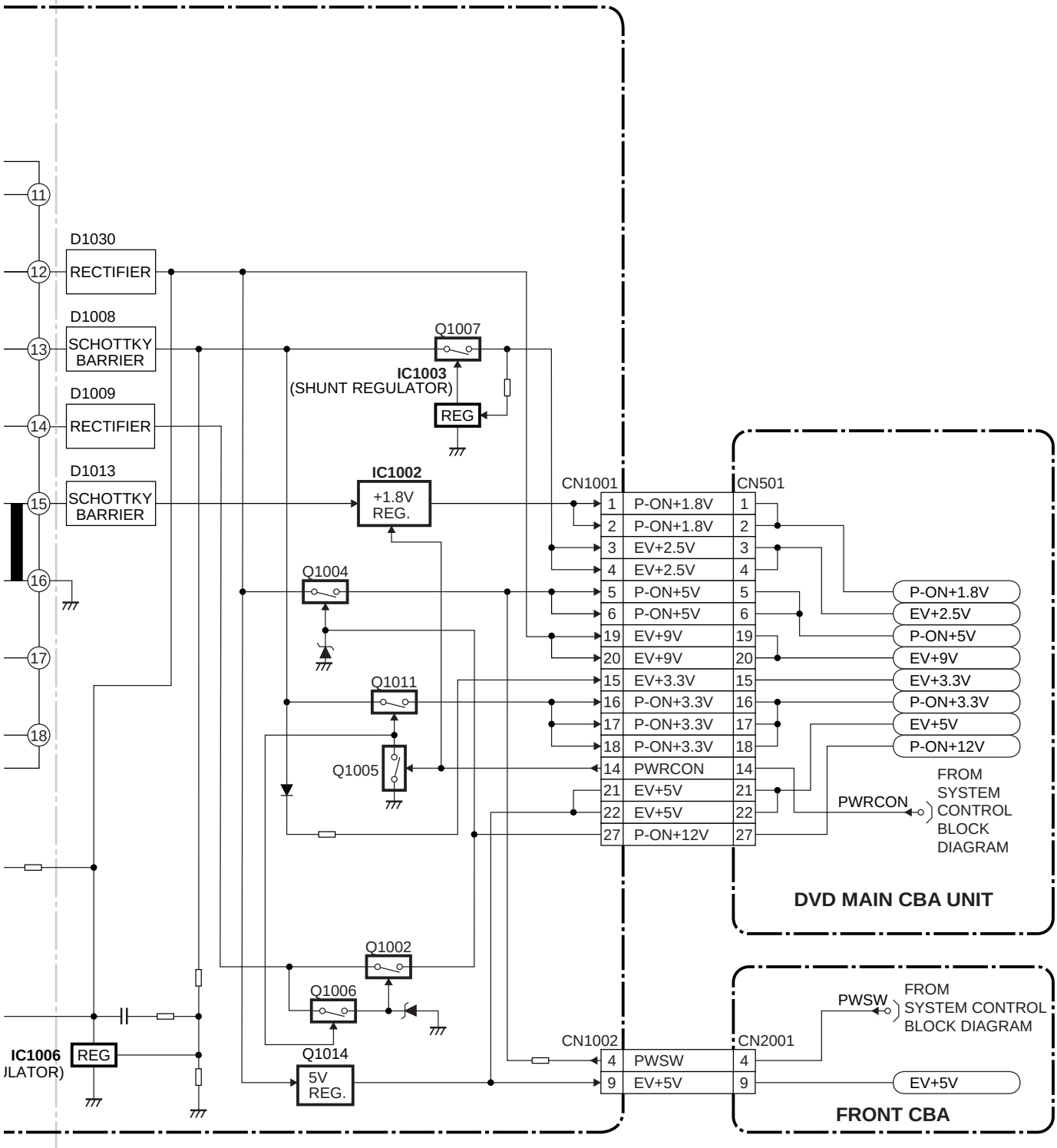


Figure 33 BLOCK DIAGRAM (12/12)

SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ⚠ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in mF ($P=10^{-6}$ mF).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

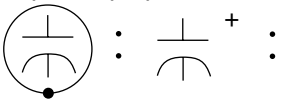
Capacitor Temperature Markings

Mark	Capacity change rate	Standard temperature	Temperature range
(B)	±10%	20°C	-25~+85°C
(F)	+30 - 80%	20°C	-25~+85°C
(SR)	±15%	20°C	-25~+85°C
(Z)	+30 - 80%	20°C	-10~+70°C

Capacitors and transistors are represented by the following symbols.

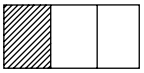
CBA Symbols

(Top View) (Bottom View)



: Electrolytic Capacitor

(Bottom View)



E C B

: Transistor or Digital Transistor

(Top View)

E C B

NPN Transistor

(Top View)

E C B

PNP Transistor

(Top View)

E C B

NPN Digital Transistor

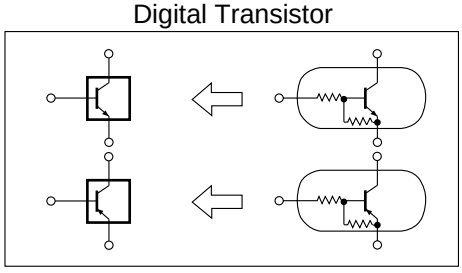
(Top View)

E C B

PNP Digital Transistor

Schematic Diagram Symbols

Digital Transistor



LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

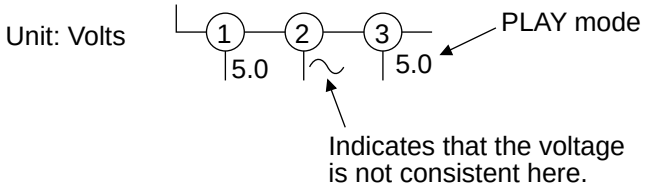
1. CAUTION:
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

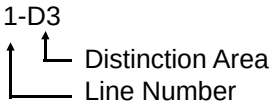
3. Note:
a. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
b. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Wire Connectors
a. Prefix symbol “CN” means “connector” (can disconnect and reconnect).
b. Prefix symbol “CL” means “wire-solder holes of the PCB” (wire is soldered directly).

5. Voltage indications for PLAY mode on the schematics are as shown below:

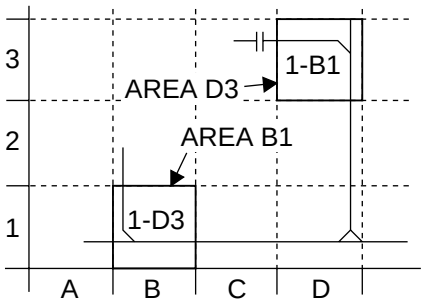


6. How to read converged lines



Examples:

1. "1-D3" means that line number "1" goes to area "D3".
2. "1-B1" means that line number "1" goes to area "B1".



7. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

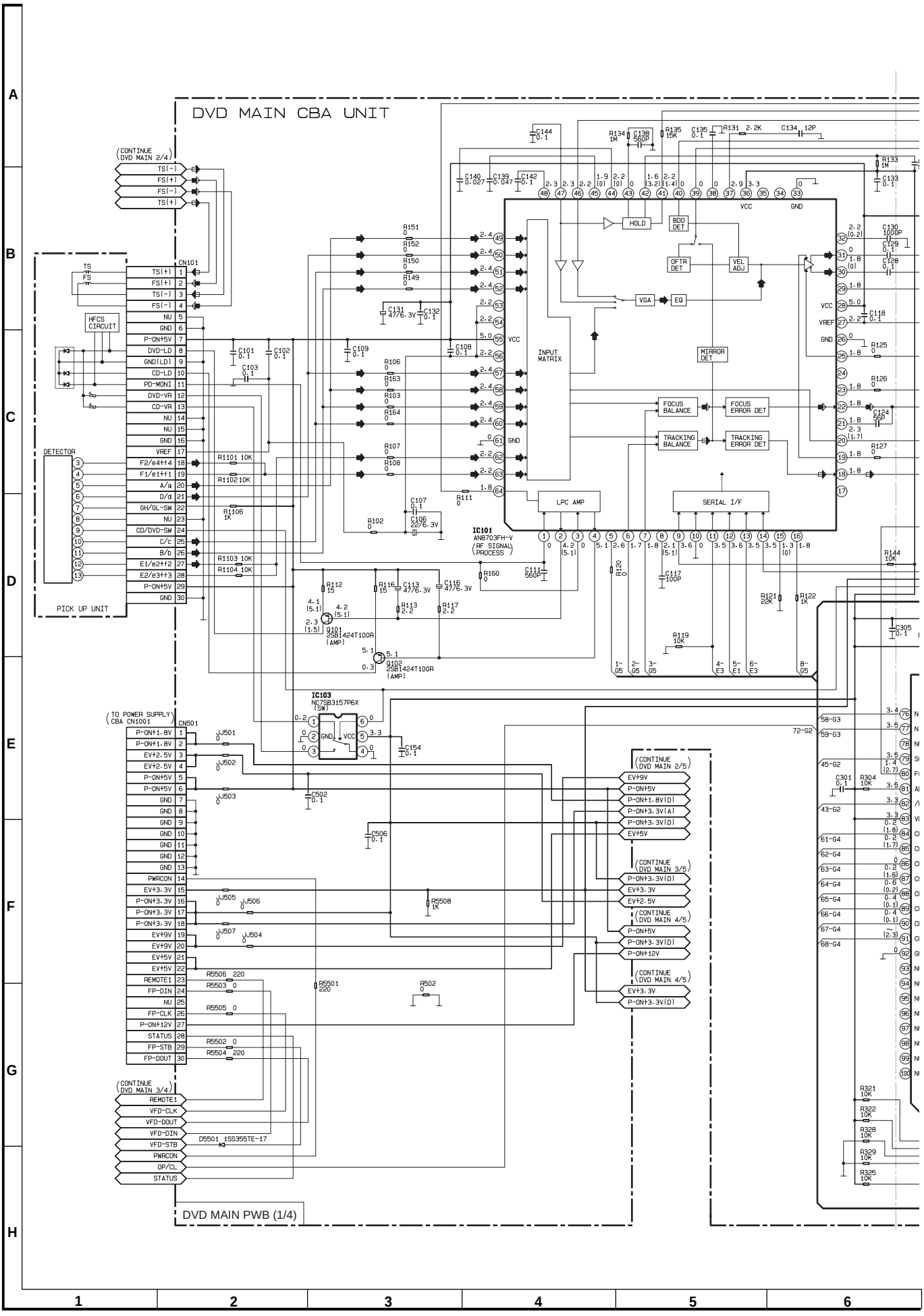
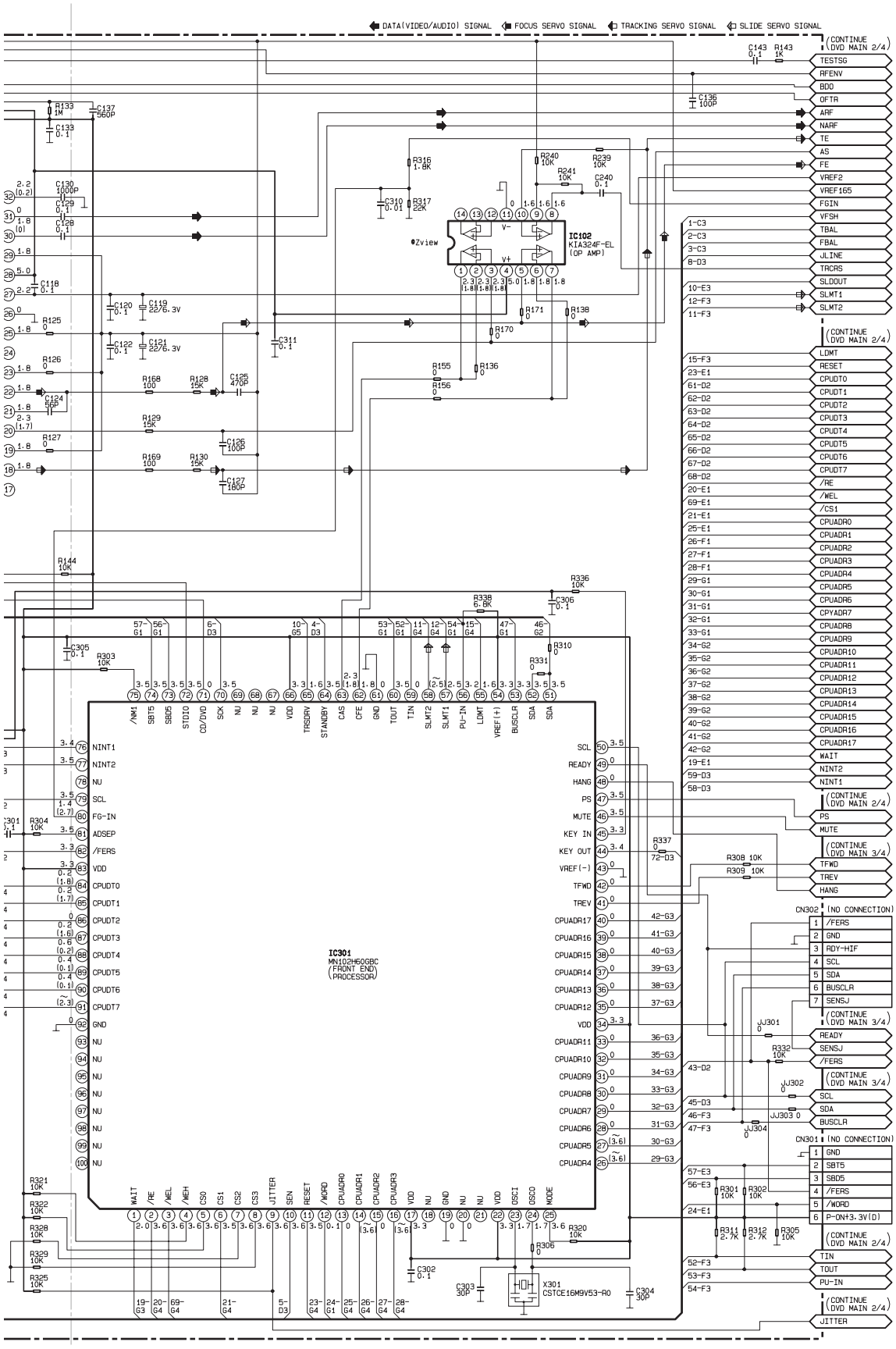


Figure 36 SCHEMATIC DIAGRAM (1/12)



MAIN 1/4

Ref No.	Position
ICS	
IC101	C-4
IC102	F-5
IC103	B-3
IC301	E-2
TRANSISTORS	
Q101	B-3
Q102	B-3
CONNECTORS	
CN101	A-5
CN301	G-1
CN302	G-2
CN501	A-3

7	8	9	10	11	12

Figure 37 SCHEMATIC DIAGRAM (2/12)

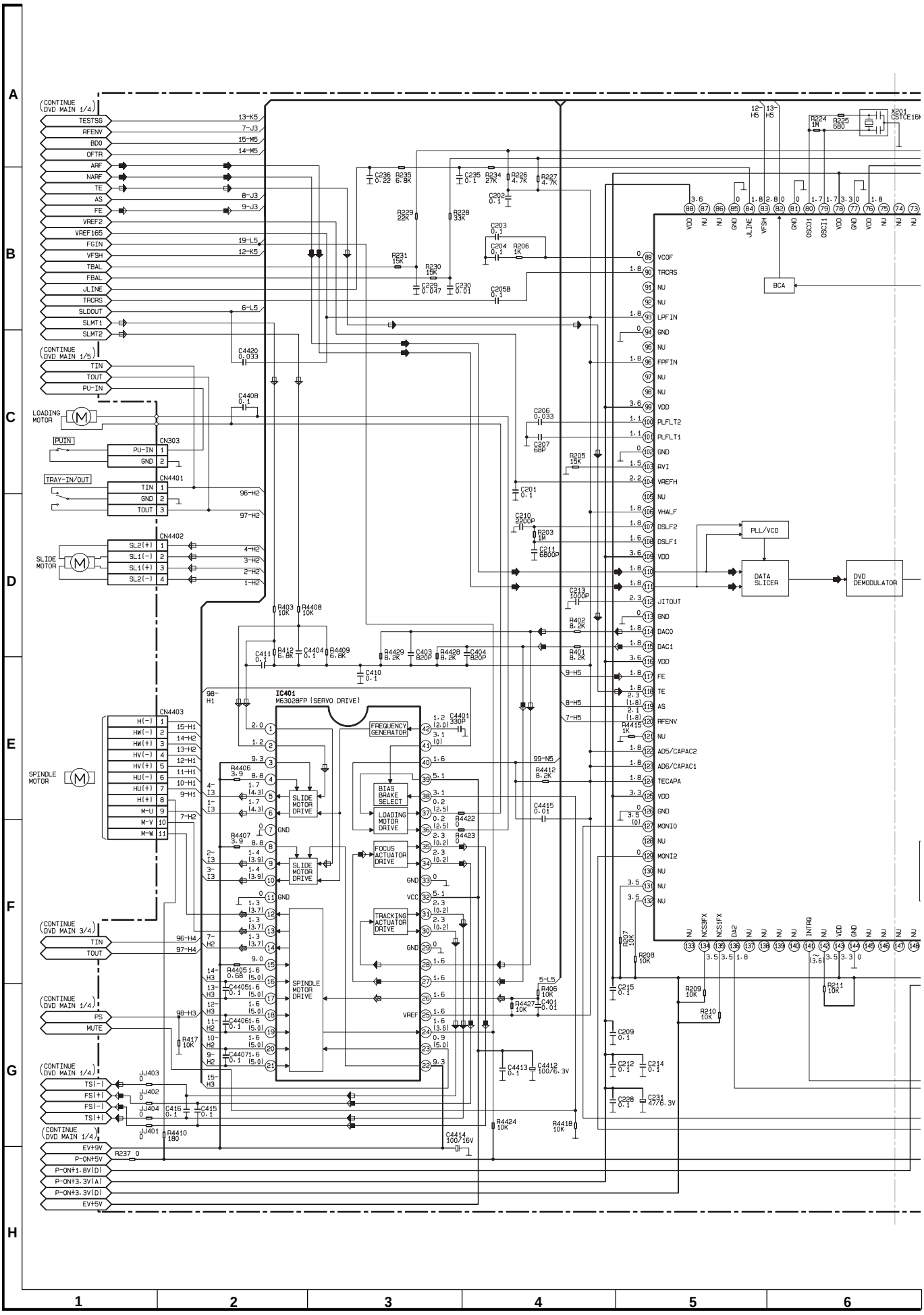
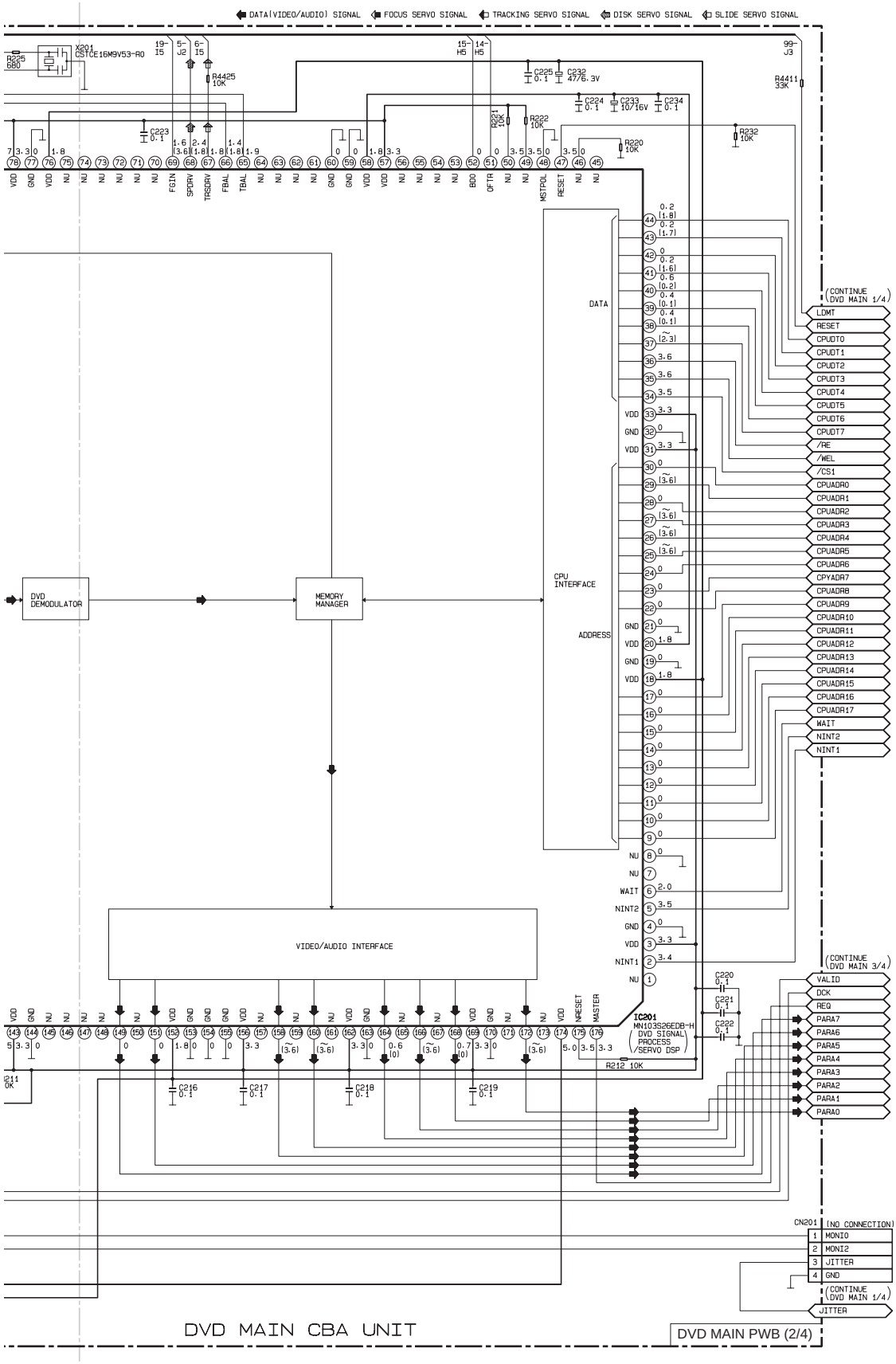


Figure 38 SCHEMATIC DIAGRAM (3/12)



MAIN 2/4

Ref No.	Position
ICS	
IC201	N-2
IC401	I-3
CONNECTORS	
CN201	N-1
CN303	H-4
CN4401	H-4
CN4402	H-4
CN4403	H-3

7	8	9	10	11	12

Figure 39 SCHEMATIC DIAGRAM (4/12)

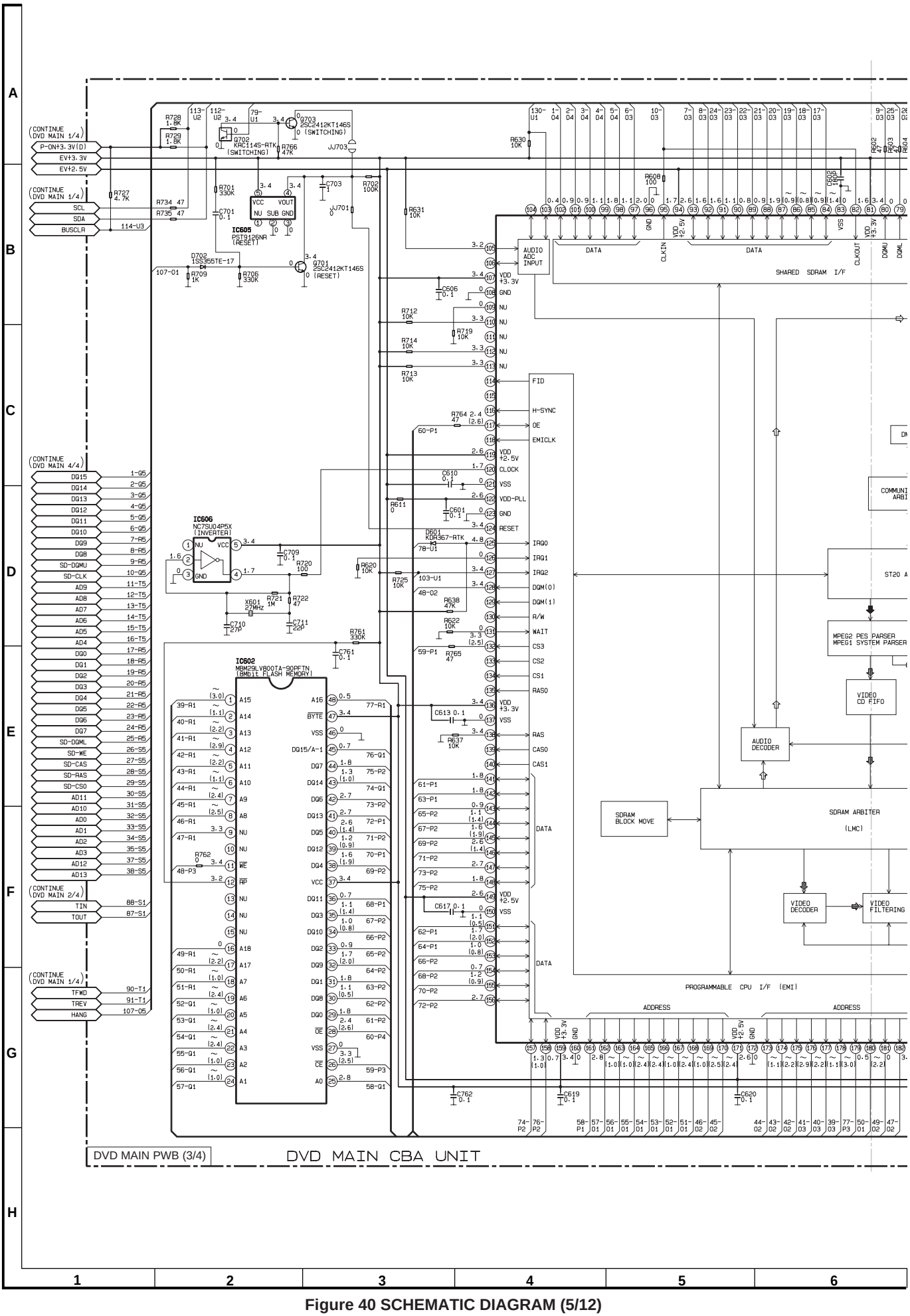
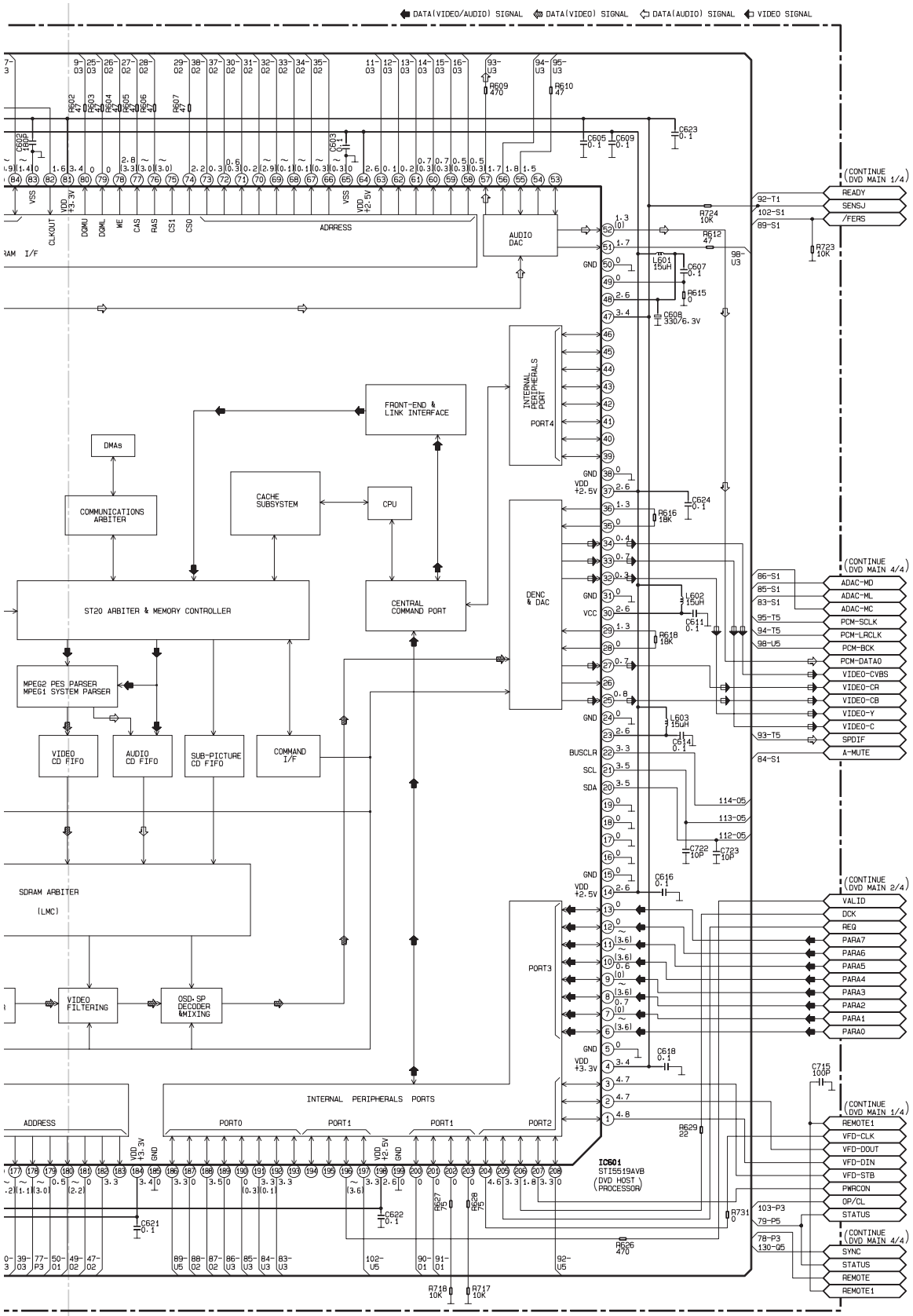


Figure 40 SCHEMATIC DIAGRAM (5/12)



MAIN 3/4

Ref No.	Position
ICS	
IC601	T-1
IC602	P-3
IC605	P-5
IC606	O-3
IC607	P-4
TRANSISTORS	
Q701	P-5
Q702	P-5
Q703	P-5

7	8	9	10	11	12

Figure 41 SCHEMATIC DIAGRAM (6/12)

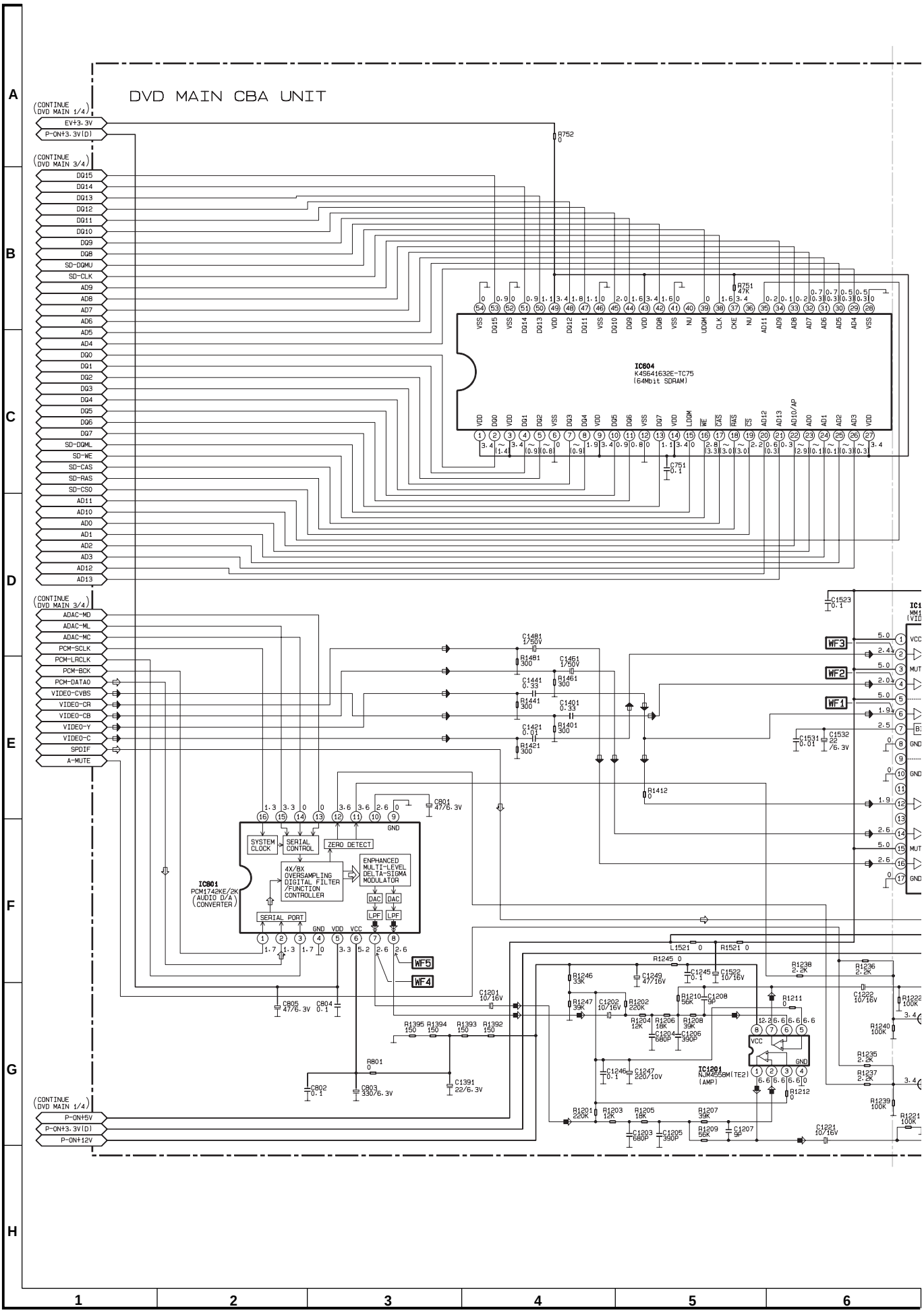
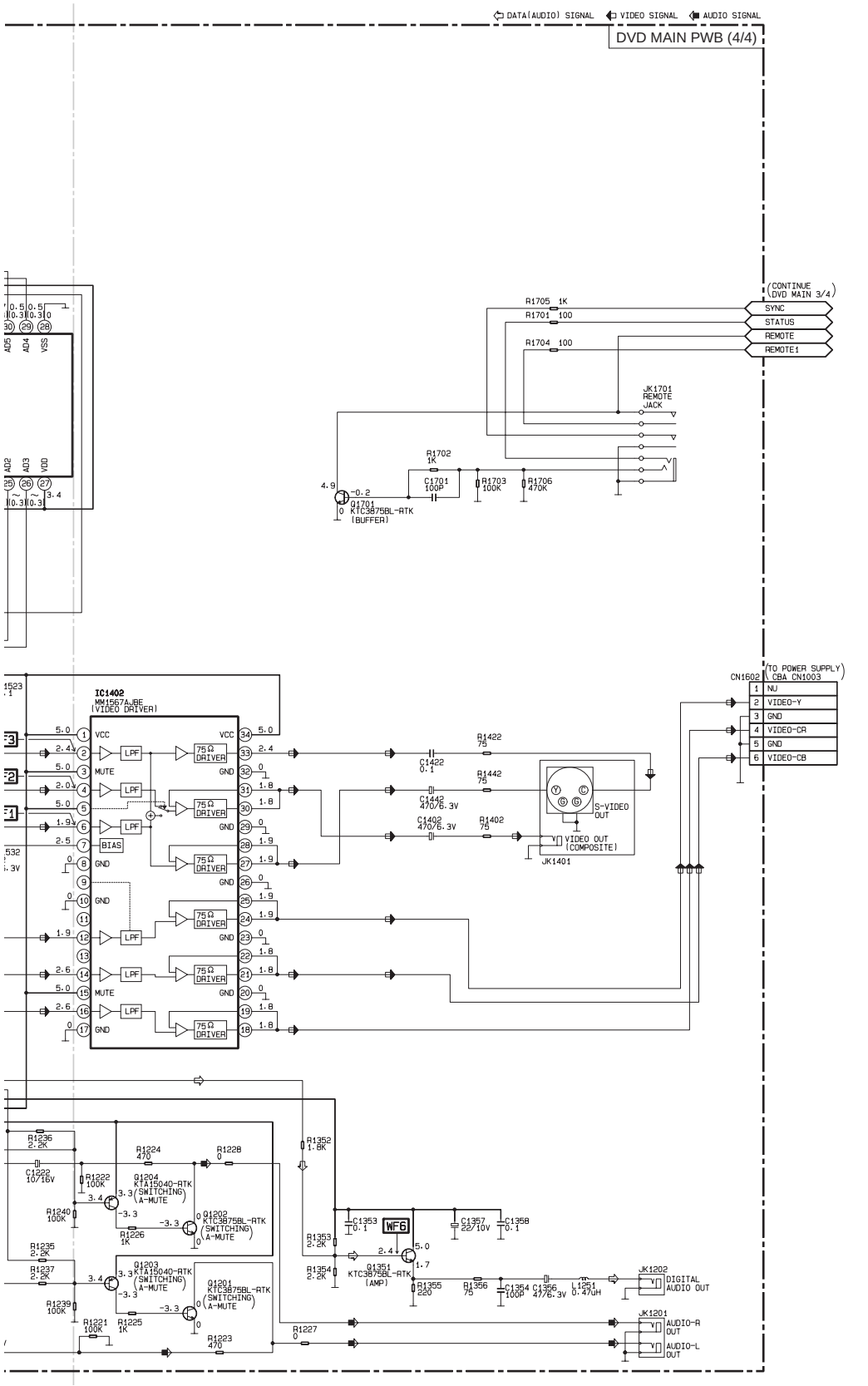


Figure 42 SCHEMATIC DIAGRAM (7/12)



MAIN 4/4

Ref No.	Position
ICS	
IC604	X-4
IC801	V-2
IC1201	Y-1
IC1402	Z-3
TRANSISTORS	
Q1201	Z-1
Q1202	Z-1
Q1203	Z-1
Q1204	Z-1
Q1351	AA-1
Q1701	Z-4
CONNECTOR	
CN1602	BB-3

7	8	9	10	11	12

Figure 43 SCHEMATIC DIAGRAM (8/12)

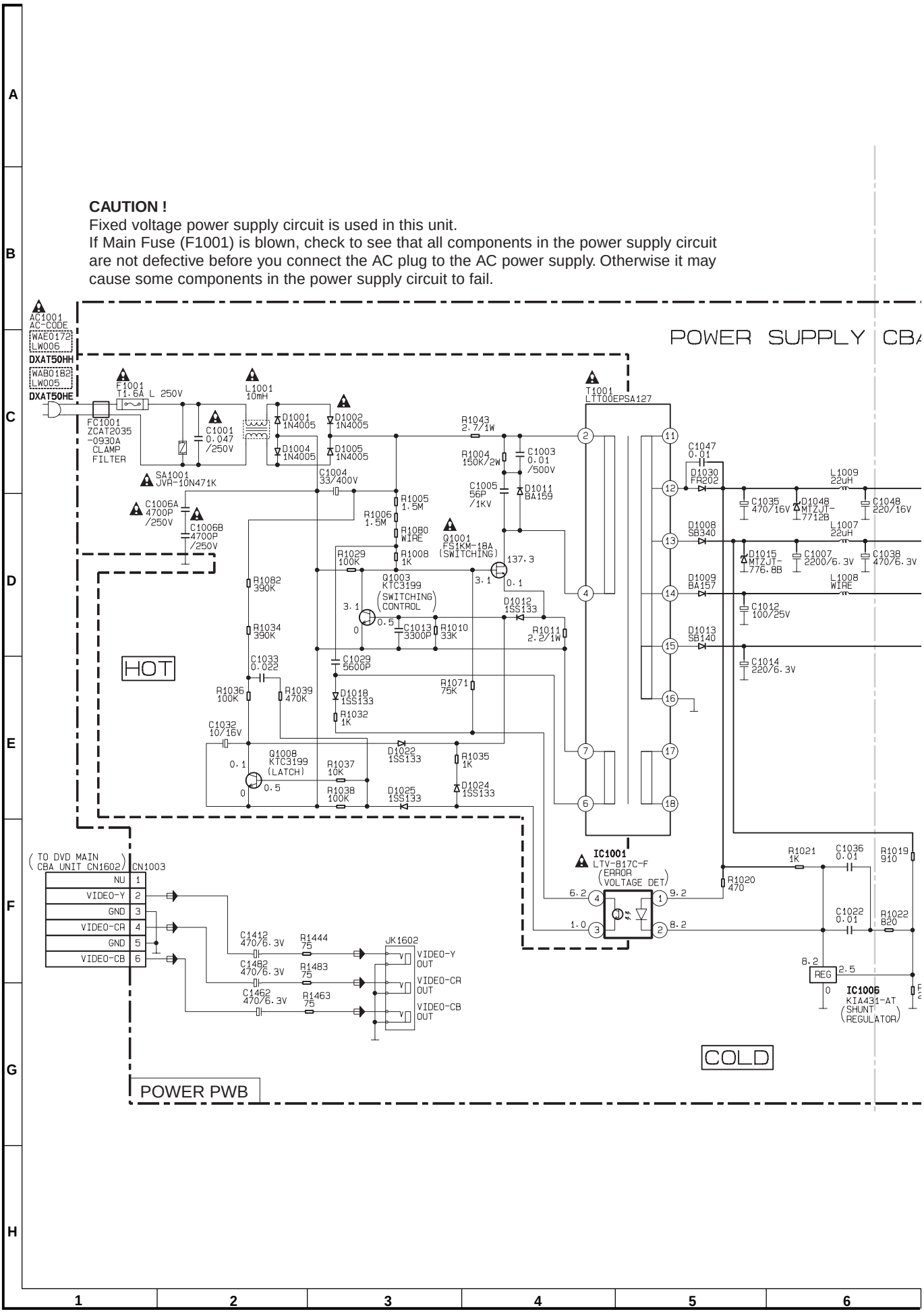
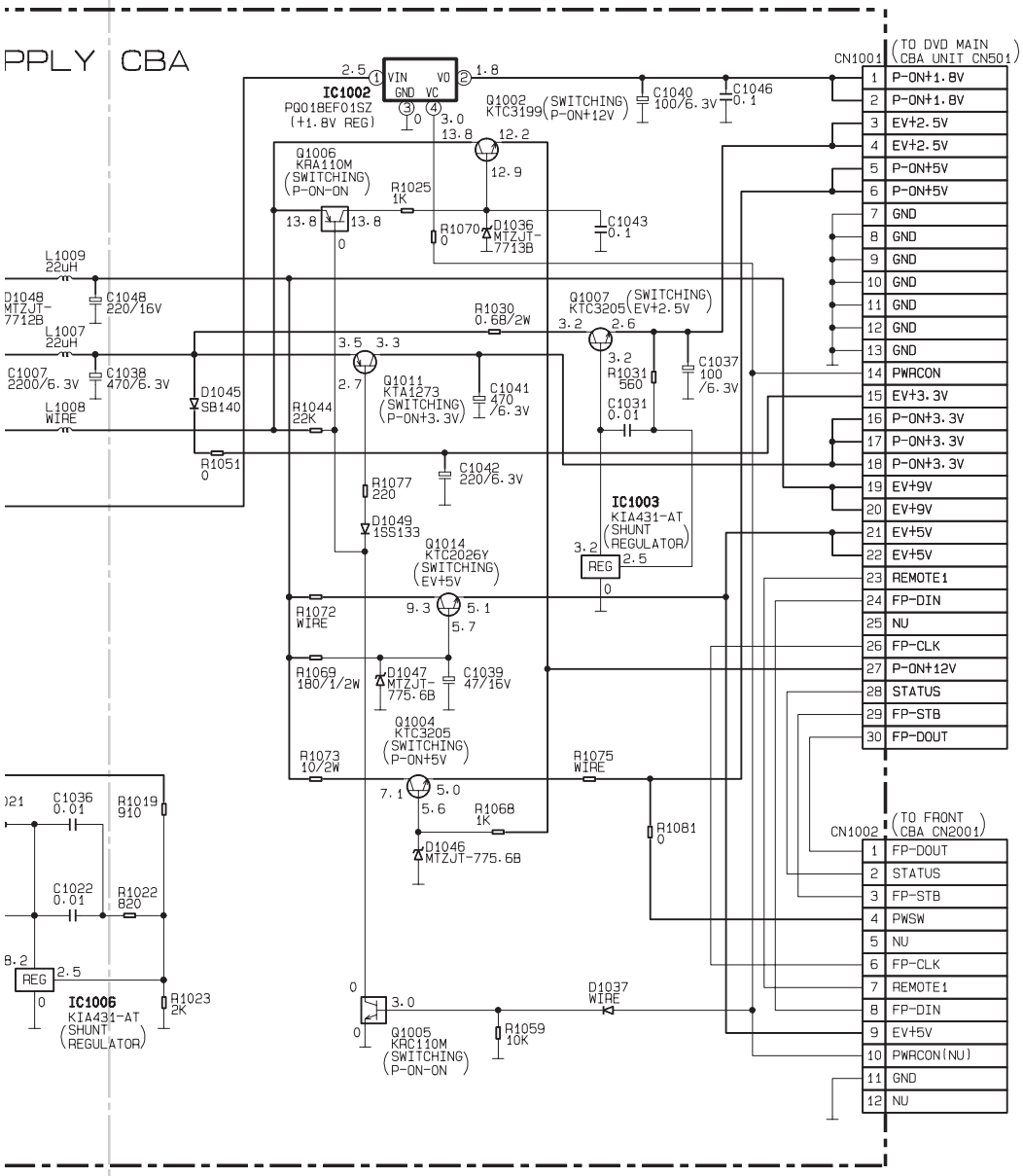


Figure 44 SCHEMATIC DIAGRAM (9/12)

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.

NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



POWER SUPPLY

Ref No.	Position
ICS	
IC1001	B-1
IC1002	D-3
IC1003	D-2
IC1006	C-1
TRANSISTORS	
Q1001	B-2
Q1002	D-3
Q1003	B-2
Q1004	D-1
Q1005	D-1
Q1006	D-3
Q1007	D-2
Q1008	A-2
Q1010	C-2
Q1011	D-2
Q1012	C-1
Q1014	D-2
CONNECTORS	
CN1001	E-3
CN1002	E-1
CN1003	A-1

7	8	9	10	11	12

Figure 45 SCHEMATIC DIAGRAM (10/12)

FRONT CBA

Ref No.	Position	Ref No.	Position	Ref No.	Position
ICS		TRANSISTORS		TRANSISTORS	
IC2001	A-2	Q2002	B-1	Q2007	B-2
IC2002	B-1	Q2003	C-1	Q2008	B-2
TRANSISTORS		Q2004	A-1	CONNECTOR	
Q2001	A-1	Q2005	A-1	CN2001	D-1

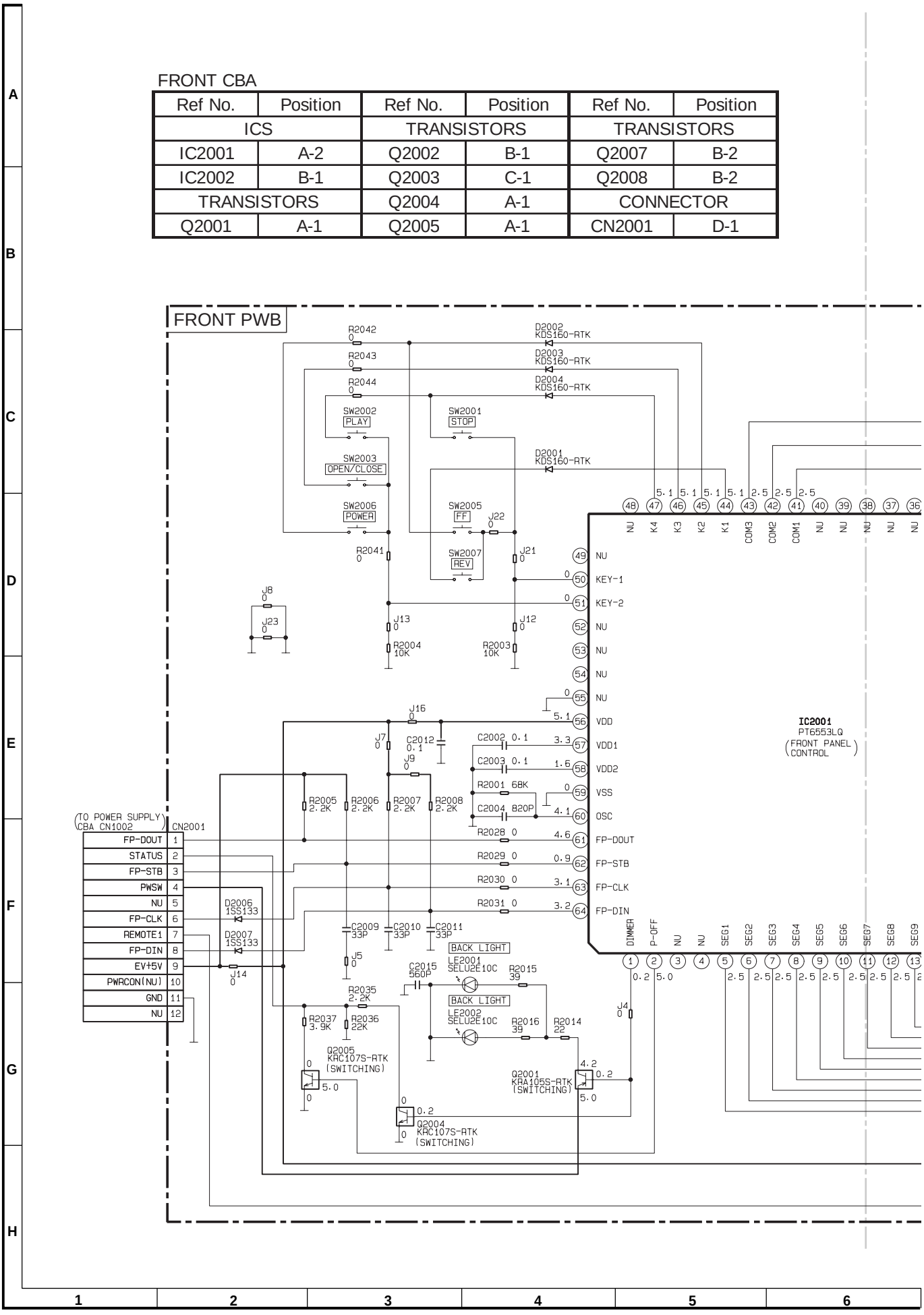
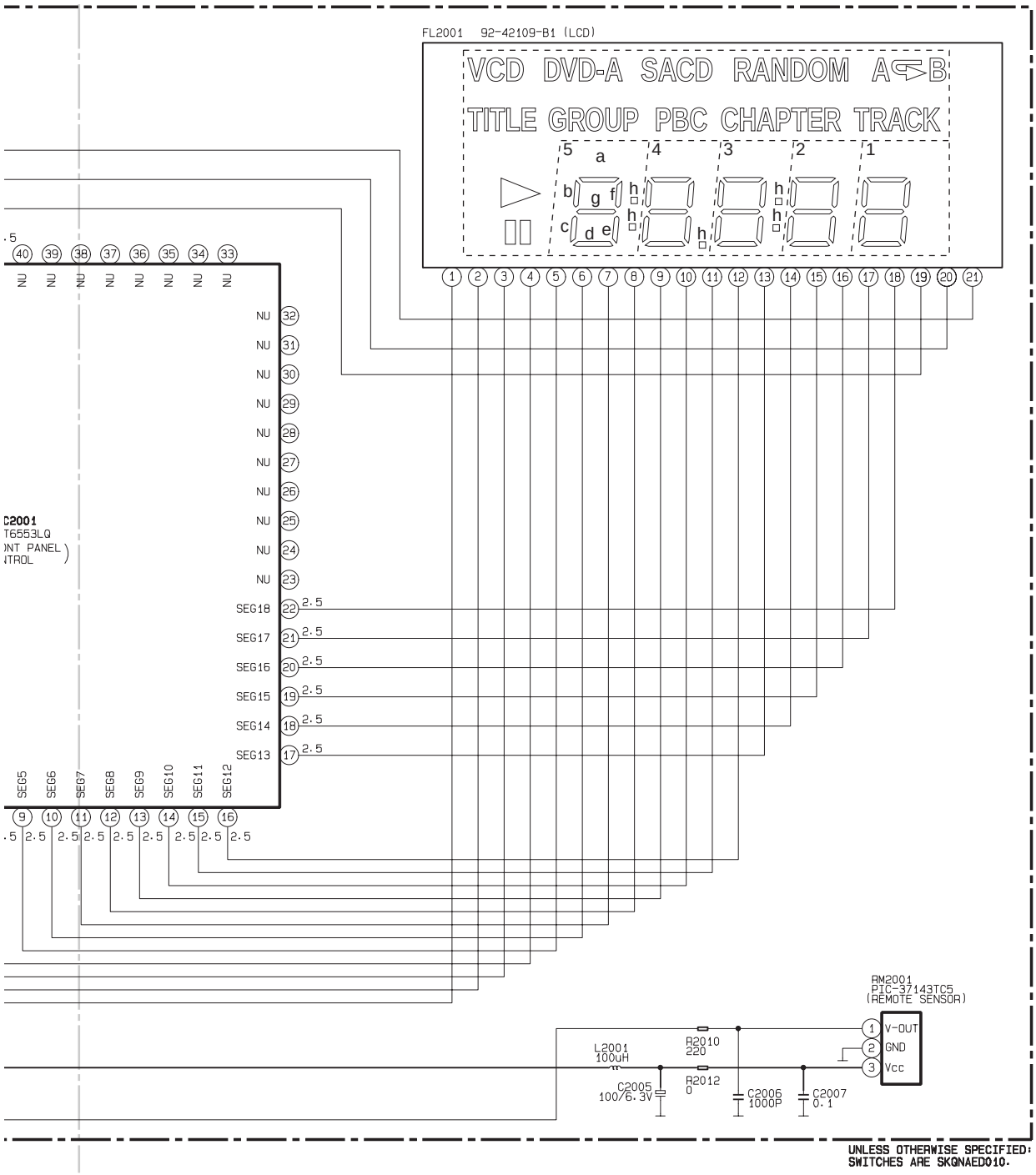


Figure 46 SCHEMATIC DIAGRAM (11/12)

FL2001 MATRIX CHART

	COM1	COM2	COM3
SEG1	5-d	5-c	□□
SEG2	5-e	5-g	▷
SEG3	5-h	5-b	TITLE
SEG4	5-f	5-a	V
SEG5	4-d	4-c	CD
SEG6	4-e	4-g	GROUP
SEG7	4-h	4-b	DVD
SEG8	4-f	4-a	-A
SEG9	3-d	3-c	PBC

	COM1	COM2	COM3
SEG10	3-e	3-g	SACD
SEG11	3-h	3-b	CHAPTER
SEG12	3-f	3-a	RANDOM
SEG13	2-d	2-c	TRACK
SEG14	2-e	2-g	A
SEG15	2-f	2-b	⇄
SEG16	1-d	1-a	B
SEG17	1-f	1-b	1-a
SEG18	1-e	1-c	1-g



7	8	9	10	11	12

Figure 47 SCHEMATIC DIAGRAM (12/12)

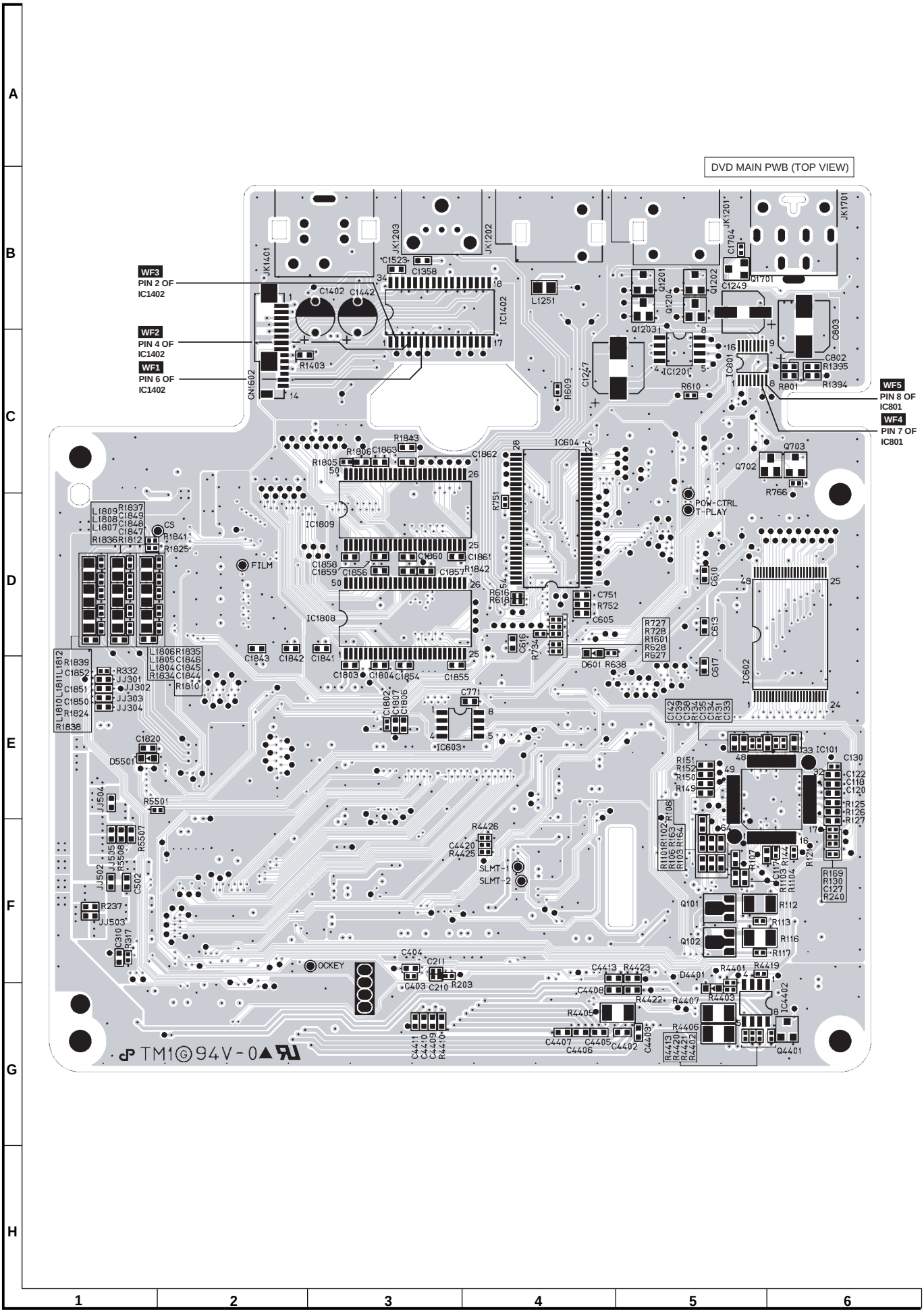
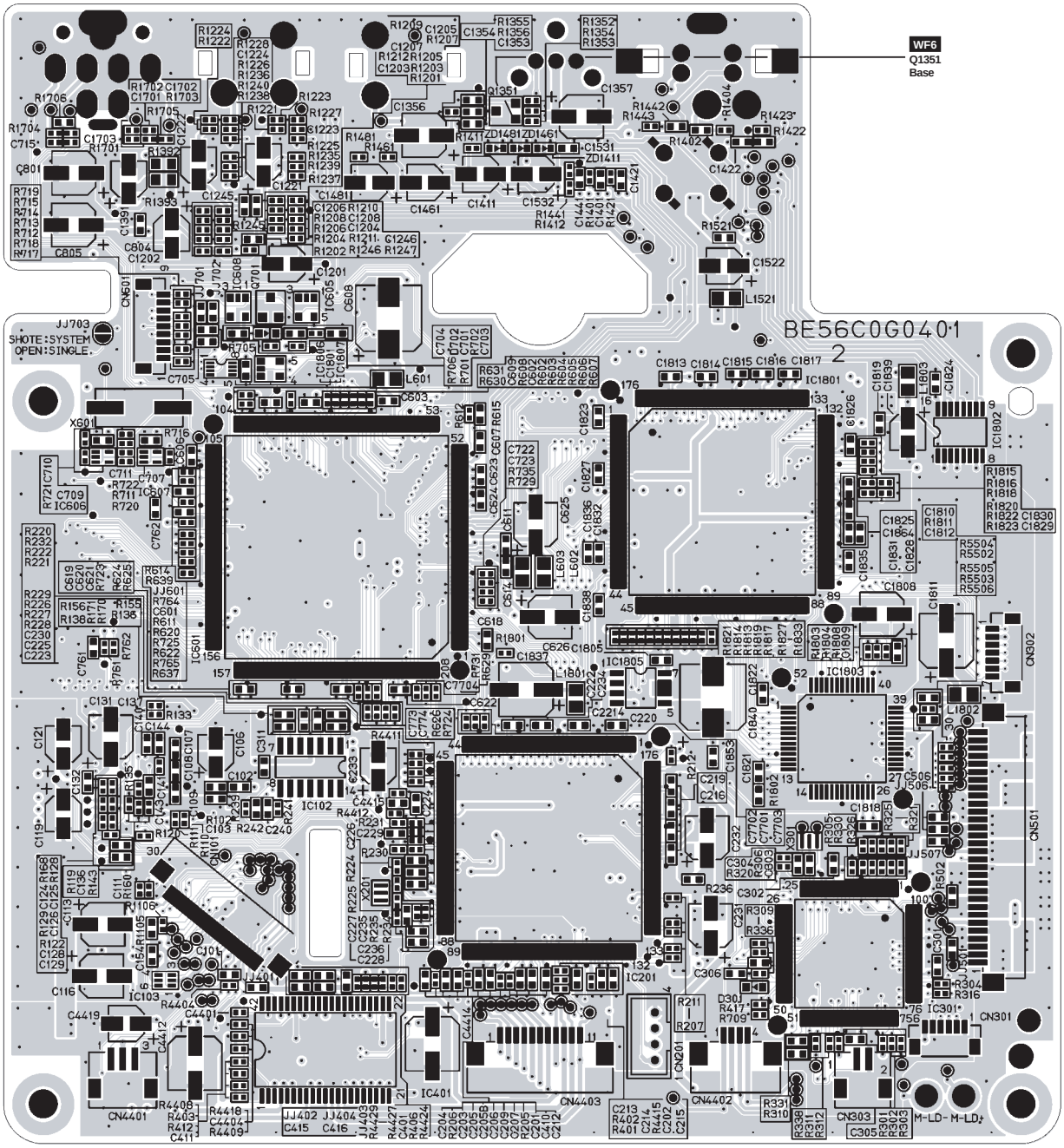


Figure 48 WIRING SIDE OF P.W.BOARD (1/6)

DVD MAIN PWB (BOTTOM VIEW)



7	8	9	10	11	12

Figure 49 WIRING SIDE OF P.W.BOARD (2/6)

POWER SUPPLY CBA

Ref No.	Position	Ref No.	Position
ICS		TRANSISTORS	
IC1001	D-1	Q1007	E-2
IC1002	E-2	Q1008	C-1
IC1003	F-2	Q1010	E-4
IC1006	D-1	Q1011	E-1
TRANSISTORS		Q1012	F-1
Q1001	C-2	Q1014	F-1
Q1002	F-2	CONNECTORS	
Q1003	C-2	CN1001	E-2
Q1004	F-1	CN1002	F-2
Q1005	F-1	CN1003	B-3
Q1006	F-2		

BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.

CAUTION !
Switching power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

POWER PWB (TOP VIEW)

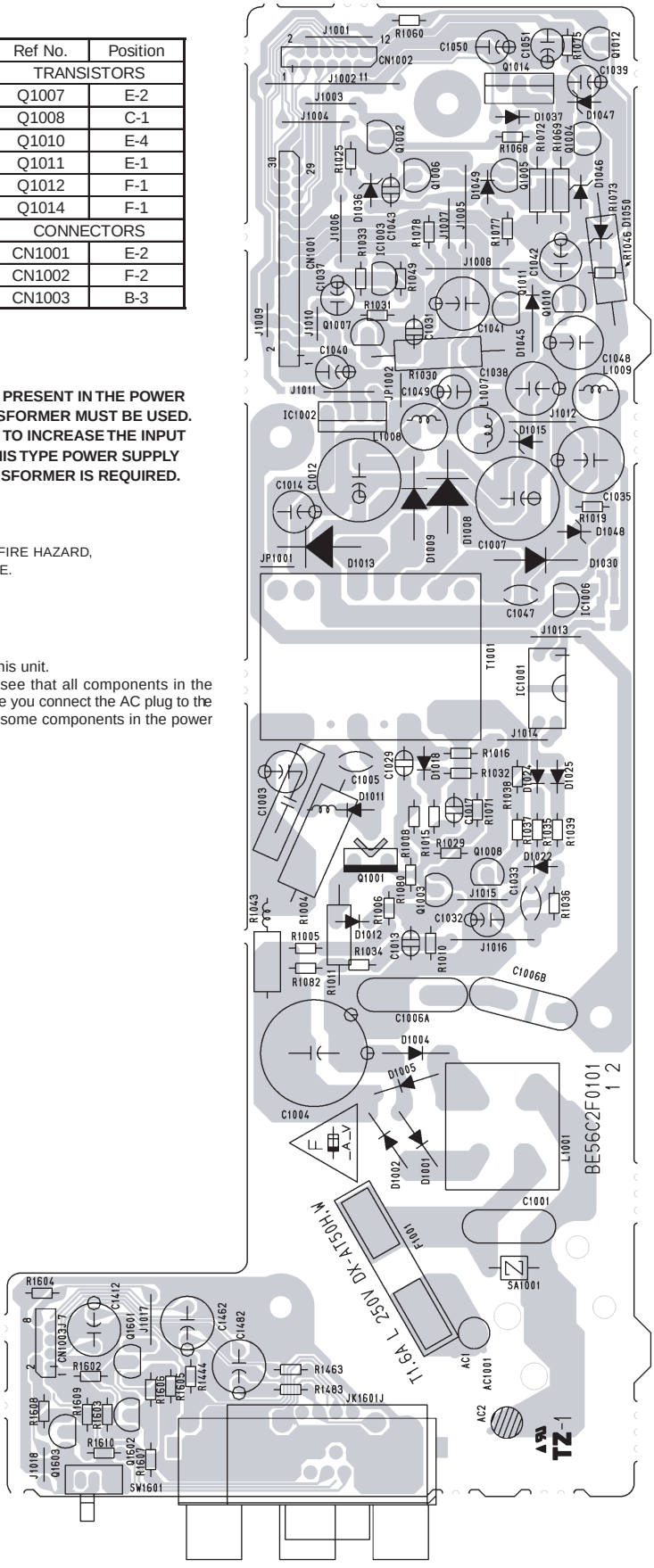
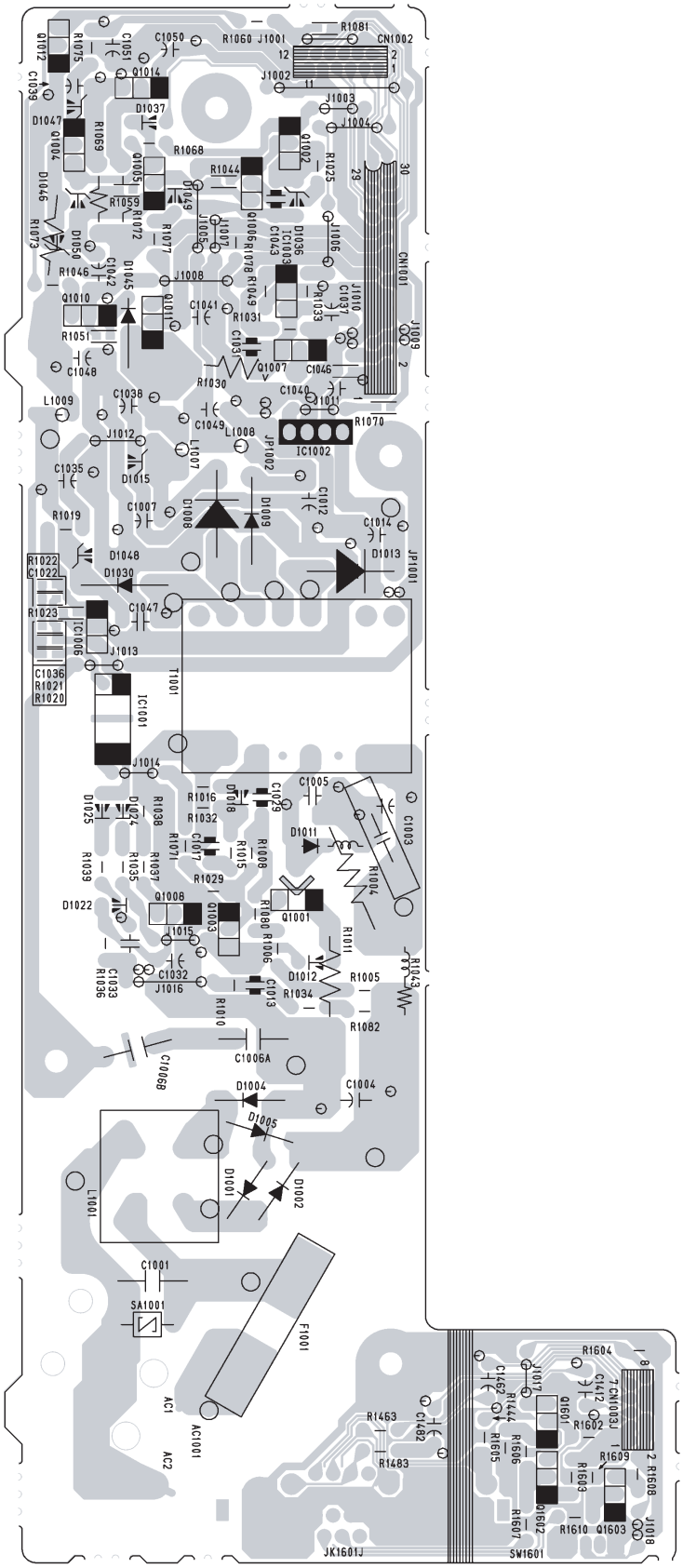


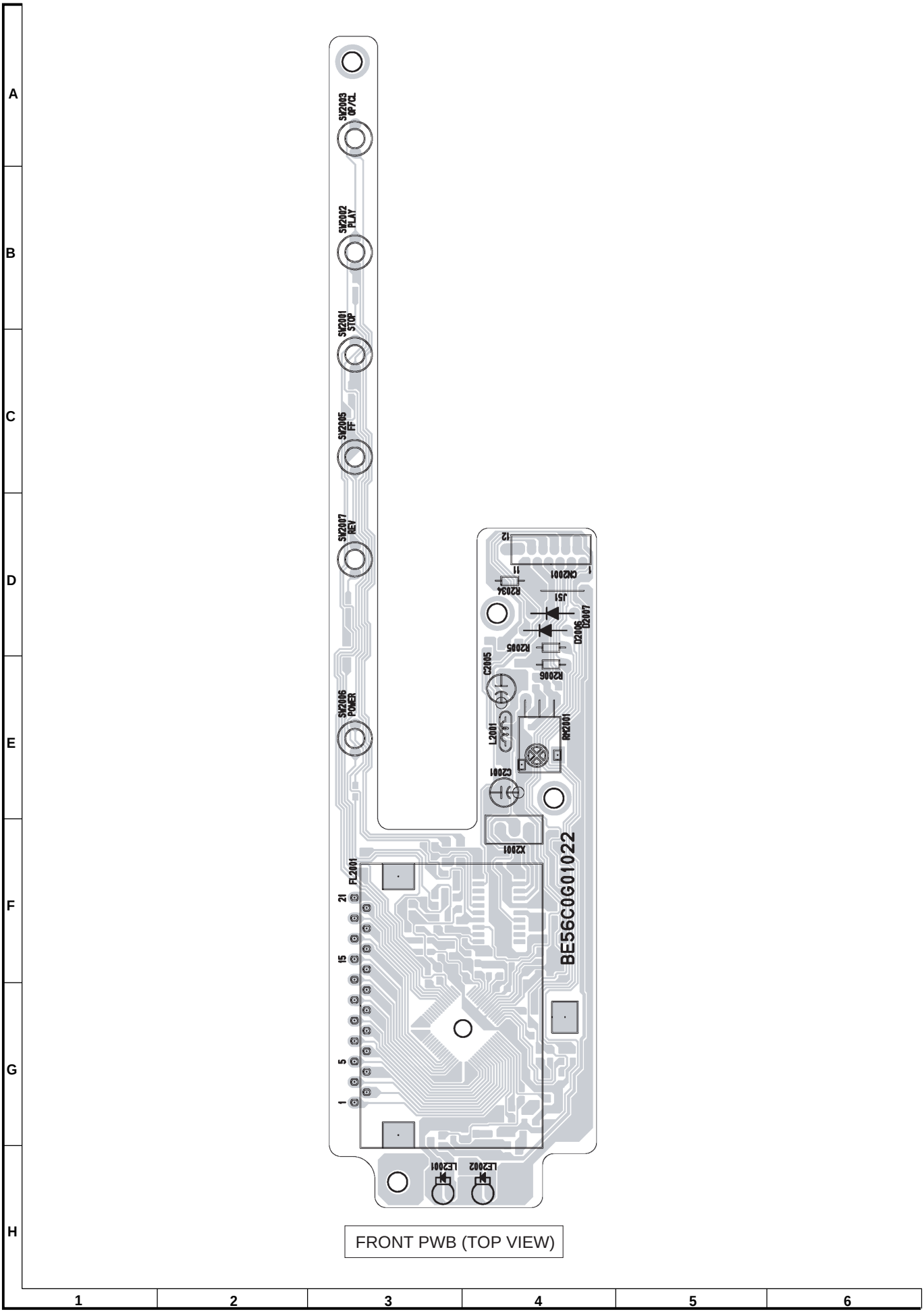
Figure 50 WIRING SIDE OF P.W.BOARD (3/6)

POWER PWB (BOTTOM VIEW)



7	8	9	10	11	12

Figure 51 WIRING SIDE OF P.W.BOARD (4/6)

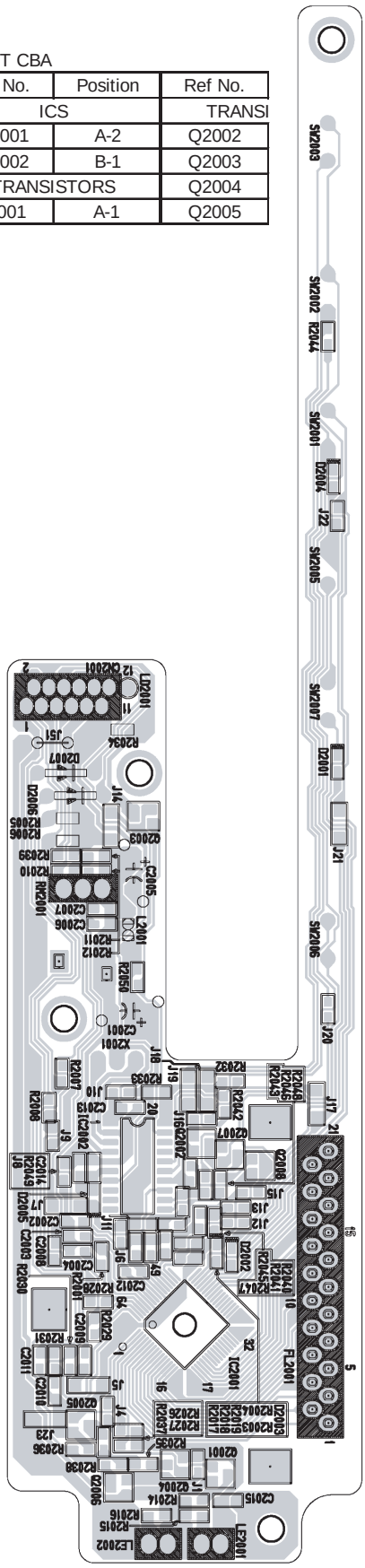


FRONT PWB (TOP VIEW)

Figure 52 WIRING SIDE OF P.W.BOARD (5/6)

FRONT CBA

Ref No.	Position	Ref No.
ICS		TRANSI
IC2001	A-2	Q2002
IC2002	B-1	Q2003
TRANSISTORS		Q2004
Q2001	A-1	Q2005



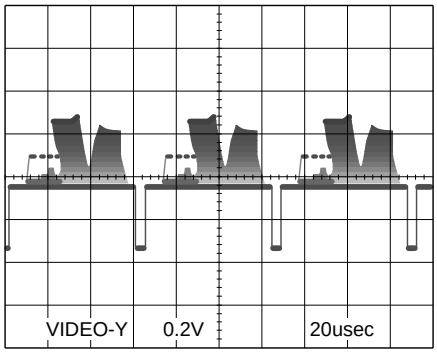
FRONT PWB (BOTTOM VIEW)

7	8	9	10	11	12

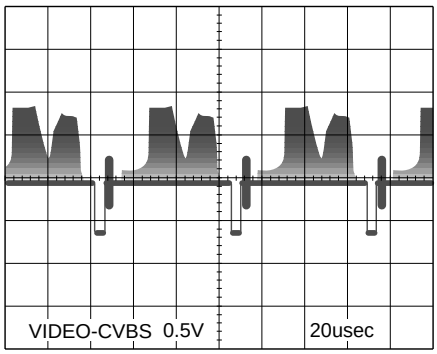
Figure 53 WIRING SIDE OF P.W.BOARD (6/6)

WAVEFORMS OF DVD CIRCUIT

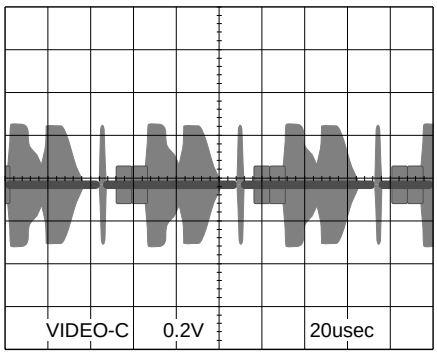
WF1 Pin 6 of IC1402



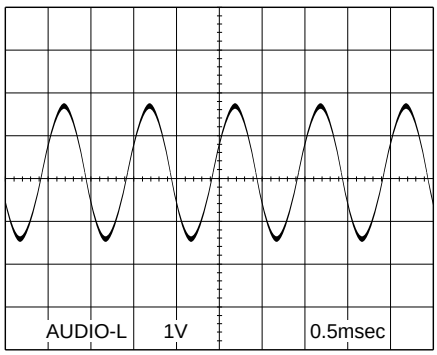
WF2 Pin 4 of IC1402



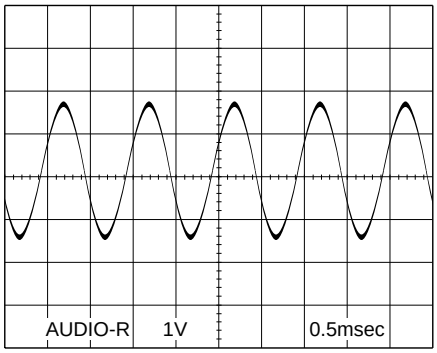
WF3 Pin 2 of IC1402



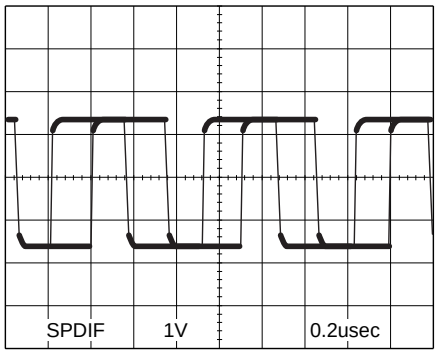
WF4 Pin 7 of IC801



WF5 Pin 8 of IC801



WF6 Q1351 Base



NOTE:

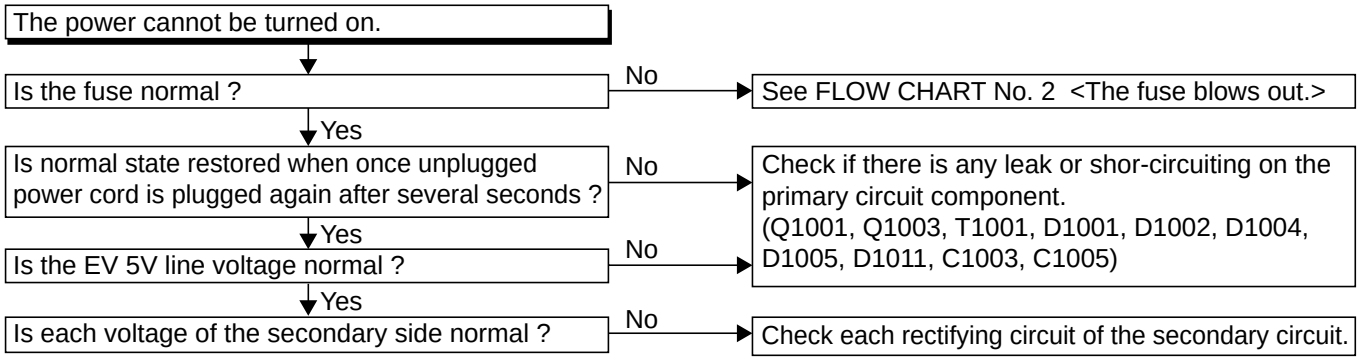
Input

CD: 1 kHz PLAY
(WF4~WF6)

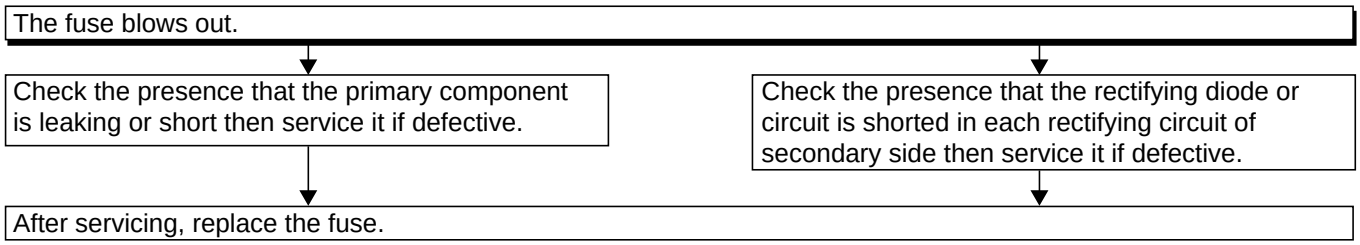
DVD: POWER ON (STOP) MODE
(WF1~WF3)

TROUBLESHOOTING

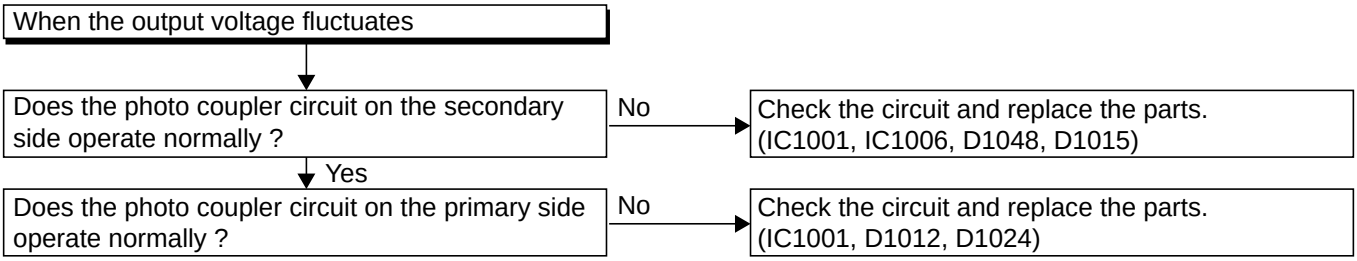
FLOW CHART NO.1



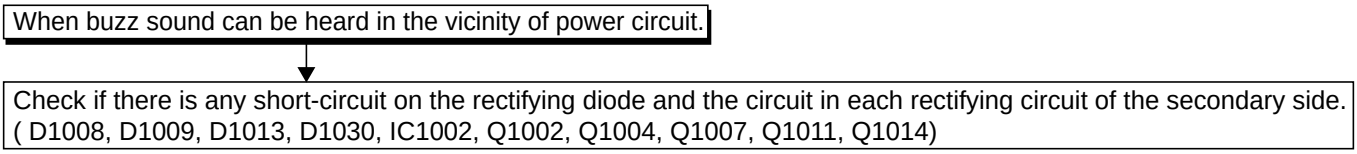
FLOW CHART NO.2



FLOW CHART NO.3



FLOW CHART NO.4



FLOW CHART NO.5

LCD (FL2001) is not functioned.

↓

Is the voltage of 5V supplied to Pin(56) of IC2001 ? — No → Check the EV 5 V line.

↓ Yes

Is there 38 kHz oscillation at Pin (60) of IC2001 ? — No → Check R2001, C2004, IC2001 and their periphery.

↓ Yes

Check the signal lines of FP-DIN, FP-DOUT, FP-CLK, FP-STB of IC2001 and CN1001 ? — No → Check or replace IC2001 and DVD Main CBA unit.

↓ Yes

Replace the LCD (FL2001).

FLOW CHART NO.6

The key operation is disabled.

↓

Is key switch contact (SW2001-2003, 2005-2007) and installation state normal ?

↓ Yes

Is the control voltage normally inputted into Pins (44-47, 50, 51) of IC2001 ? — No → Check the key switches (SW2001-2003, 2005-2007), and their periphery circuit.

FLOW CHART NO.7

No operation is possible from the remote control unit.

↓

Operation is possible from the DVD, but no operation is possible from the remote control unit.

↓ Yes

Is no operation possible if replacing the remote control unit ? — No → Original remote control unit is poor.

↓ Yes

Is 5V voltage supplied to the Pin (3) terminal of the infrared remote control receiver (RM2001) ? — No → Check EV 5 V line.

↓ Yes

Is the "L" pulse sent out Pin (1) terminal of receiver when the infrared remote control is activated ? — No → Replace the infrared remote control receiver.

↓ Yes

Is the "L" pulse signal supplied to the Pin(25) of CN1001 from Pin (1) of receiver ? (Be operated by SEARCH (-), SEARCH (+), PLAY, STILL/PAUSE, STOP, POWER and OPEN/CLOSE button.)

No → Check the line between the infrared remote control receiver and Pin (23) of CN1001.

Yes → Replace DVD Main CBA unit.

FLOW CHART NO.8

P-ON 12 V is not outputted.

↓

Is P-ON12 V voltage supplied to the collector of Q1002 ? — No → Check D1009, C1012 and the periphery circuit.

↓ Yes

Does the P-ON switch circuit operate normally ? (Q1005, Q1006, D1036, etc.) — No → Check each component and if poor, then replace.

↓ Yes

Replace Q1002.

FLOW CHART NO.9

P-ON 5 V is not outputted. (PON 12 V is outputted normally.)

↓

Is 5 V voltage supplied to the collector of Q1004 ? — No → Check D1030, D1048, C1035, C1048 and their periphery circuit.

↓ Yes

Is the "H" pulse inputted into the base of Q1004 ? — No → Check Q1004, D1046 and the periphery circuit.

↓ Yes

Replace Q1004.

FLOW CHART NO.10

P-ON 3.3 V is not outputted.

↓

Is 3.3 V voltage supplied to the emitter of Q1011 ? — No → Check D1008, D1015, C1007, C1038 and their periphery circuit.

↓ Yes

Does the P-CON switch circuit operate normally ? (Q1005, Q1006, etc.) — No → Check each component and if poor, then replace.

↓ Yes

Replace Q1011.

FLOW CHART NO.11

P-ON 1.8 V is not outputted.

↓

Is 2.5 V voltage supplied to Pin (1) of IC1002 ? — No → Check D1013, C1014 and their periphery circuit.

↓ Yes

Is the "H" pulse inputted into Pin (4) of IC1002 ? — No → Check PWRCON line.

↓ Yes

Replace IC1002.

FLOW CHART NO.12

The disc tray cannot be opened and closed. (It can be done using the remote control unit.)

↓

Is 5 V pulse supplied to Pin (46) of IC2001 when the OPEN/CLOSE button is activated on the DVD ? — No → Check the SW2003 and OPEN/CLOSE button.

↓ Yes

See FLOW CHART NO. 13. <The disc tray cannot be opened and closed.>

FLOW CHART NO.13

The disc tray cannot be opened and closed.

↓

Replace the DVD Main CBA Unit.

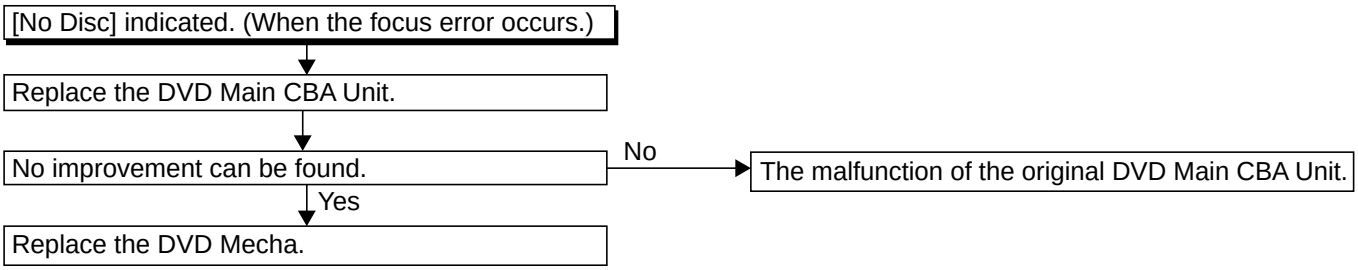
↓

No improvement can be found. — No → The malfunction of the original DVD Main CBA Unit.

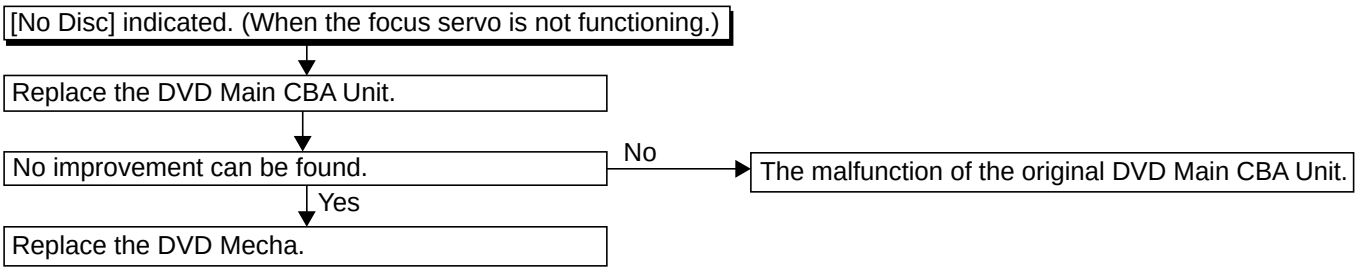
↓ Yes

Replace the DVD Mecha.

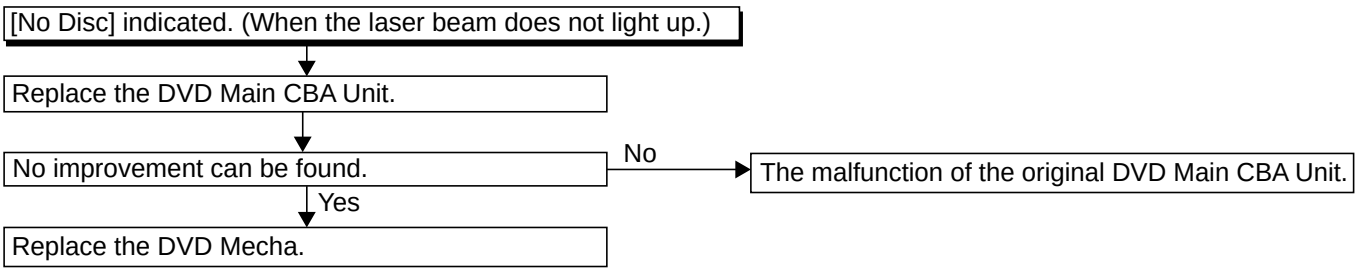
FLOW CHART NO.14



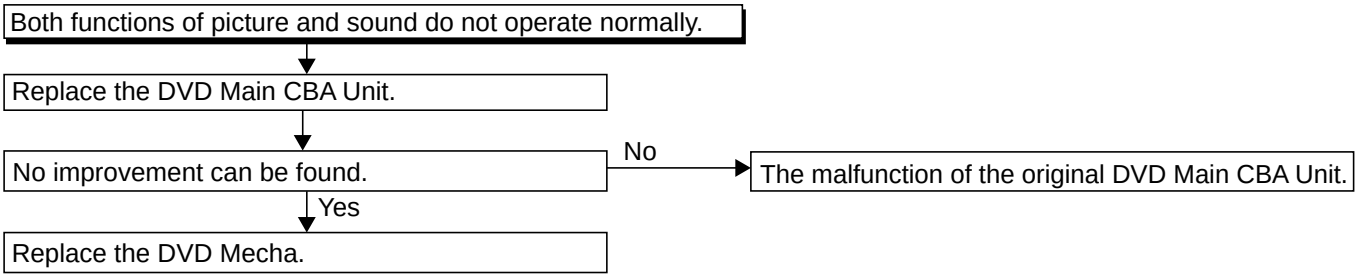
FLOW CHART NO.15



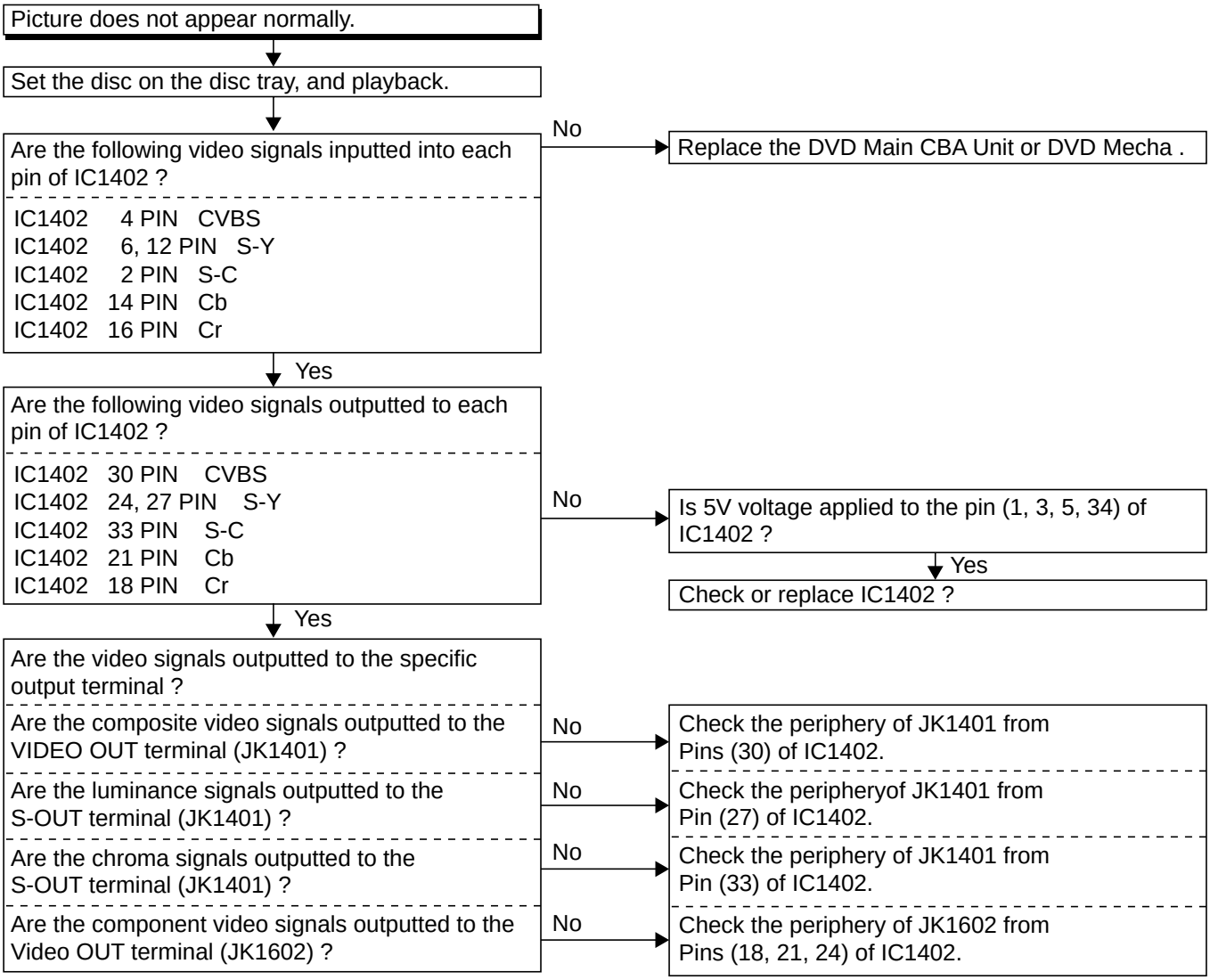
FLOW CHART NO.16



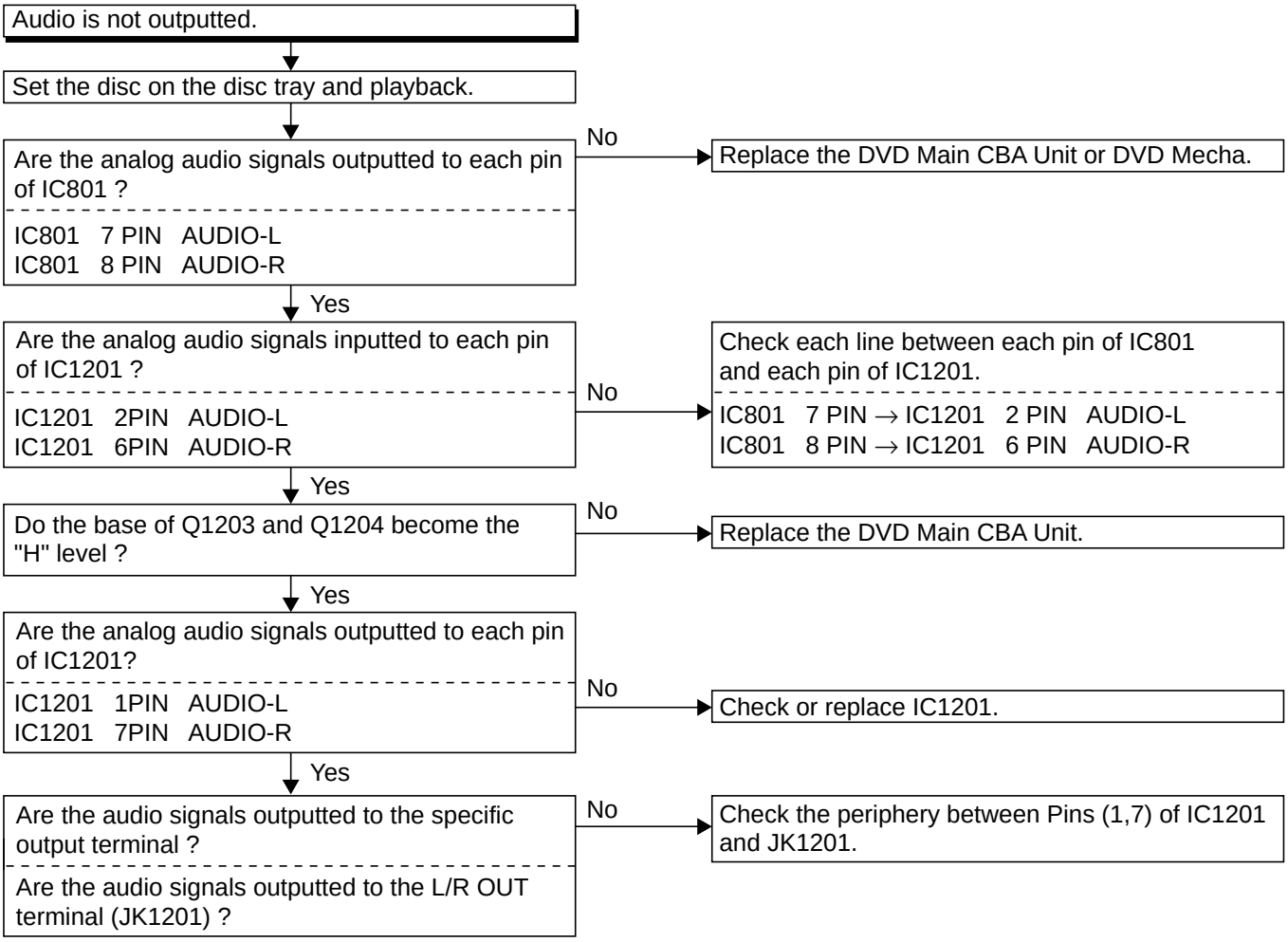
FLOW CHART NO.17



FLOW CHART NO.18

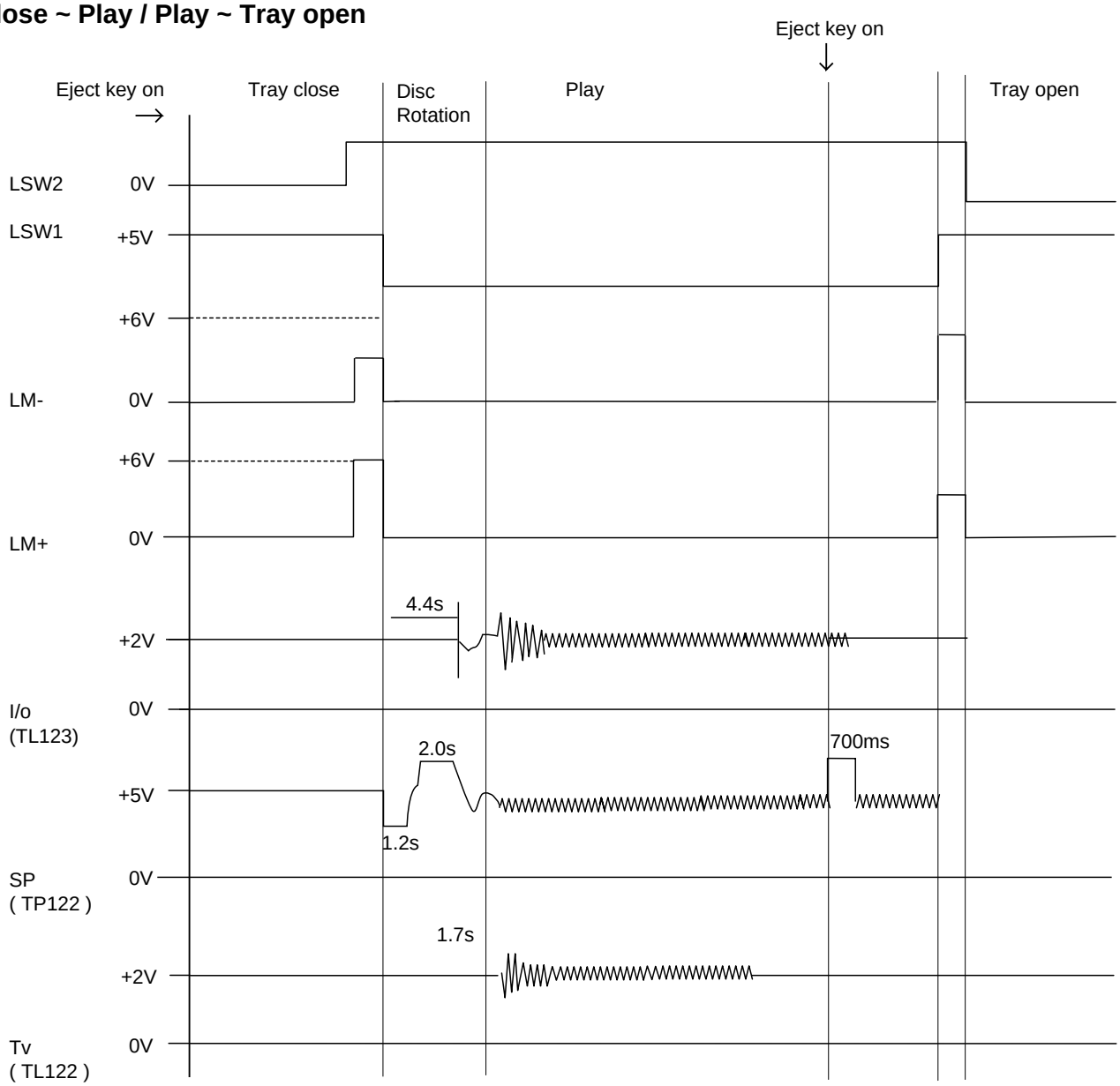


FLOW CHART NO.19



SYSTEM CONTROL TIMING CHARTS

Tray close ~ Play / Play ~ Tray open

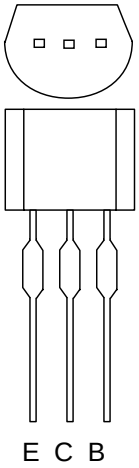


IC PIN FUNCTION DESCRIPTIONS

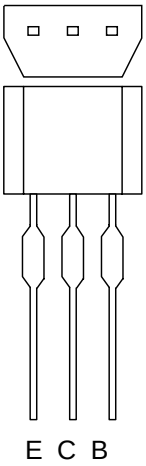
IC2001 (PT6553IRQ)

Pin No.	IN/ OUT	Signal Name	Function
1	Out	DIMMER	Backlight Control
2	Out	P-OFF	Power OFF Signal
3	-	NU	Not Used
4	-	NU	Not Used
5	Out	SEG1	Display Segment
6	Out	SEG2	Display Segment
7	Out	SEG3	Display Segment
8	Out	SEG4	Display Segment
9	Out	SEG5	Display Segment
10	Out	SEG6	Display Segment
11	Out	SEG7	Display Segment
12	Out	SEG8	Display Segment
13	Out	SEG9	Display Segment
14	Out	SEG10	Display Segment
15	Out	SEG11	Display Segment
16	Out	SEG12	Display Segment
17	Out	SEG13	Display Segment
18	Out	SEG14	Display Segment
19	Out	SEG15	Display Segment
20	Out	SEG16	Display Segment
21	Out	SEG17	Display Segment
22	Out	SEG18	Display Segment
23	-	NU	Not Used
24	-	NU	Not Used
25	-	NU	Not Used
26	-	NU	Not Used
27	-	NU	Not Used
28	-	NU	Not Used
29	-	NU	Not Used
30	-	NU	Not Used
31	-	NU	Not Used
32	-	NU	Not Used
33	-	NU	Not Used
34	-	NU	Not Used
35	-	NU	Not Used
36	-	NU	Not Used
37	-	NU	Not Used
38	-	NU	Not Used
39	-	NU	Not Used
40	-	NU	Not Used
41	Out	COM1	Common Terminal 1
42	Out	COM2	Common Terminal 2
43	Out	COM3	Common Terminal 3
44	In	K1	Key Data 1 Input Signal
45	In	K2	Key Data 2 Input Signal
46	In	K3	Key Data 3 Input Signal
47	In	K4	Key Data 4 Input Signal
48	-	NU	Not Used
49	-	NU	Not Used
50	Out	KEY-1	Key Source -1
51	Out	KEY-2	Key Source -2
52	-	NU	Not Used
53	-	NU	Not Used
54	-	NU	Not Used
55	-	NU	Not Used
56	-	VDD	Power
57	-	VDD1	VDD1
58	-	VDD2	VDD2
59	-	VSS	GND
60	In	OSC	Oscillator Input Signal
61	Out	FP-DOUT	Serial Data Output Signal
62	In	FP-STB	Serial Interface Strobe
63	In	FP-CLK	System Clock
64	In	FP-DIN	Serial Data Output Input Signal

LEAD IDENTIFICATIONS

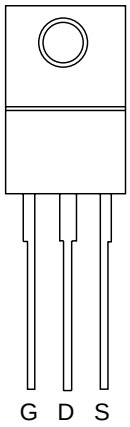


2SA966 (Y)
2SC2236-Y-TPE6,C

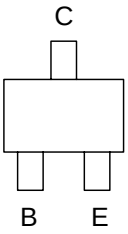


2SC2785 (H)
KTC3199 (GR)
KRA110M
KRA110M-AT
KTA1273 (Y)
BN1L3Z (P)
KTC3205 (Y)
BA1L3Z-T

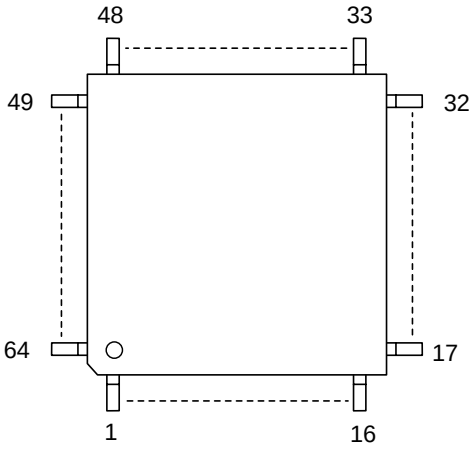
FS1KM-18A



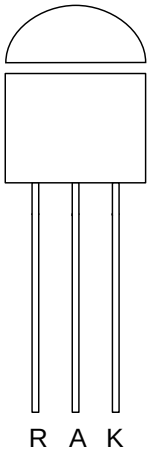
KRC107S-RTK
KRA105S-RTK



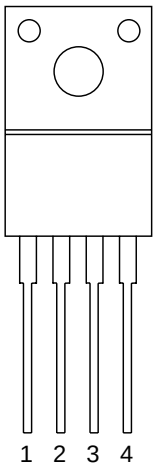
PT6553LQ



KIA431-AT

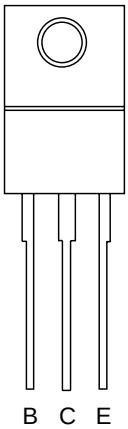


PQ018EF01SZ



1: Vin
2: Vo
3: GND
4: Vc

KTC2026Y



LTV-817(B,C)-F

Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
G: Gate
D: Drain
S: Source

— M E M O —

SHARP PARTS GUIDE

DVD PLAYER

MODEL DX-AT50H

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

DX-AT50H

MAIN PWB UNIT

INTEGRATED CIRCUITS

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
IC101	9HSSZBA0RMS009	J	AX	DVD FEP AN8703FH-V
IC102	9HSSBLA0TJY044	J	AE	IC:OPERATIONNAL AMPLIFIER KIA324F-EL
IC103	9HSSZBA0TF3063	J	AF	1CIRCUIT ANALOG SWITCH NC7SB3157P6X
IC201	9HSSZBB0RMS008	J	BF	DVD SODC MN103S26EDB-H
IC301	9HSSZAA0RMS004	J	AV	16BIT CPU IC MN102H60GBC
IC401	9HSSZBA0SMB016	J	AS	IC M63028FP
IC601	9HSSZBA0RSS095	J	BN	MPEG2DECORDER IC WITH CPU STI5519AVB
IC602	9HSSZBA0RFJ005	J	AW	8MB FLASH MEMORY 90NS MBM29LV800TA-90PFTN
IC602	9HSSZBA0RHY047	J	AT	IC (FLASH MEMORY) HY29LV800TT-70
IC602	9HSSZBA0RM0001	J	AW	8MB FLASH MEMORY 90NS MX29LV800TTC-90
IC602	9HSSZBA0RSS087	J	AX	IC (FLASH MEMORY) M29W800AT100N6
IC604	9HSSZBA0THY019	J	AZ	IC (SDRAM) HY57V641620HGT-H
IC604	9HSSZBA0THY045	J	AY	IC (SDRAM) HY57V641620HGT-6
IC604	9HSSZBA0THY046	J	AY	IC (SDRAM) HY57V641620HGT-7
IC604	9HSSZBA0TSM033	J	AZ	IC (SDRAM) K4S641632E-TC60T
IC604	9HSSZBA0T1A001	J	AY	IC (SDRAM) VDS6616A4A-7 (T)
IC604	9HSSZBA0T1A002	J	AY	IC (SDRAM) VDS6616A4A-6 (T)
IC604	9HSSZBB0RSM018	J	AS	IC (SDRAM) K4S641632E-TC75
IC604	9HSSZBC0TSM018	J	AX	IC (SDRAM) K4S641632F-TC75T
IC605	9HSSBLA0TMM080	J	AE	IC (RESET) PST9126NR
IC606	9HSSZBA0TF3064	J	AE	INVERTERCIRCUIT NC7SU04P5X
IC801	9HSSZBA0TPW009	J	AM	AUDIO D/A COVERTER PCM1742KE/2K
IC1201	9HSSMLA0TJR007	J	AE	IC:OPE.AMP NJM4558M (TE2)
IC1402	9HSSZBA0TMM082	J	AN	DRIVER FOR DVD (6CH) MM1567AJBE

TRANSISTORS

Q101	9HSQ2Q02SB1424	J	AD	CHIP TRANSISTOR 2SB1424 T100Q
Q101	9HSQ2R02SB1424	J	AD	CHIP TRANSISTOR 2SB1424 T100R
Q102	9HSQ2Q02SB1424	J	AD	CHIP TRANSISTOR 2SB1424 T100Q
Q102	9HSQ2R02SB1424	J	AD	CHIP TRANSISTOR 2SB1424 T100R
Q701	9HSQ1S2SC2412K	J	AC	CHIP TRANSISTOR 2SC2412K T146S
Q701	9HSQ150KTC3875	J	AC	CHIP TRANSISTOR KTC3875BL-RTK
Q702	9HSQ1Z0KRC114S	J	AB	CHIP TRANSISTOR KRC114S-RTK
Q703	9HSQ1S2SC2412K	J	AC	CHIP TRANSISTOR 2SC2412K T146S
Q703	9HSQ150KTC3875	J	AC	CHIP TRANSISTOR KTC3875BL-RTK
Q1201	9HSQ1S2SC2412K	J	AC	CHIP TRANSISTOR 2SC2412K T146S
Q1201	9HSQ150KTC3875	J	AC	CHIP TRANSISTOR KTC3875BL-RTK
Q1202	9HSQ1S2SC2412K	J	AC	CHIP TRANSISTOR 2SC2412K T146S
Q1202	9HSQ150KTC3875	J	AC	CHIP TRANSISTOR KTC3875BL-RTK
Q1203	9HSQ1Y0KTA1504	J	AC	CHIP TRANSISTOR KTA1504Y-RTK
Q1203	9HSQ100KTA1504	J	AC	CHIP TRANSISTOR KTA1504O-RTK
Q1204	9HSQ1Y0KTA1504	J	AC	CHIP TRANSISTOR KTA1504Y-RTK
Q1204	9HSQ100KTA1504	J	AC	CHIP TRANSISTOR KTA1504O-RTK
Q1351	9HSQ1S2SC2412K	J	AC	CHIP TRANSISTOR 2SC2412K T146S
Q1351	9HSQ150KTC3875	J	AC	CHIP TRANSISTOR KTC3875BL-RTK
Q1701	9HSQ1S2SC2412K	J	AC	CHIP TRANSISTOR 2SC2412K T146S

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
Q1701	9HSQ150KTC3875	J	AC	CHIP TRANSISTOR KTC3875BL-RTK

DIODES

D601	9HSD1ZRB501V40	J	AD	SCHOTTKY BARRIER DIODE RB501V-40 TE-17
D702	9HSD1Z001SS355	J	AC	CHIP DIODE 1SS355 TE-17
D5501	9HSD1Z001SS355	J	AC	CHIP DIODE 1SS355 TE-17

COILS

L601~603	9HSLC150KTU013	J	AC	CHIP INDUCTOR LEMF2520T150K
L1251	9HSLACKL3TUR47	J	AB	CHIP INDUCTOR LEM2520TR47K
L1521	9HSRX8ZR6Z0000	J	AA	CHIP RES. (2125) 1/8W 0 OHM

VIBRATORS

X201	9HSY0166CMR001	J	AF	CERAMIC RESONATOR CSTCE16M9V53-R0
X301	9HSY0166CMR001	J	AF	CERAMIC RESONATOR CSTCE16M9V53-R0
X601	9HSXC276CLN001	J	AF	QUARTZ CRYSTAL 27.000MHZ

CAPACITORS

C101~103	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C106	9HSE0KMR1CL220	J	AC	CHIP ELECTROLYTIC CAP. 22UF/6.3V M (WX)
C107~109	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C111	9HSHB1JK30B561	J	AA	CHIP CERAMIC CAP. (1005) B K 560PF/50V
C113	9HSE0KMR1CL470	J	AC	CHIP ELECTROLYTIC CAP. 47UF/6.3V M (WX)
C116	9HSE0KMR1CL470	J	AC	CHIP ELECTROLYTIC CAP. 47UF/6.3V M (WX)
C117	9HSHD1JJ3CH101	J	AA	CHIP CERAMIC CAP. CH J 100PF/50V
C118	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C119	9HSE0KMR1CL220	J	AC	CHIP ELECTROLYTIC CAP. 22UF/6.3V M (WX)
C120	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C121	9HSE0KMR1CL220	J	AC	CHIP ELECTROLYTIC CAP. 22UF/6.3V M (WX)
C122	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C124	9HSHB1JJ3CH560	J	AA	CHIP CERAMIC CAP. (1005) CH J 56PF/50V
C125	9HSHB1JK30B471	J	AA	CHIP CERAMIC CAP. (1005) B K 470PF/50V
C126	9HSHB1JJ3CH101	J	AA	CHIP CERAMIC CAP. (1005) CH J 100PF/50V
C127	9HSHB1JJ3CH181	J	AA	CHIP CERAMIC CAP. (1005) CH J 180PF/50V
C128,129	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C130	9HSHB1JK30B102	J	AA	CHIP CERAMIC CAP. (1005) B K 1000PF/50V
C131	9HSE0KMR1CL470	J	AC	CHIP ELECTROLYTIC CAP. 47UF/6.3V M (WX)
C132,133	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C134	9HSHB1JJ3CH120	J	AA	CHIP CERAMIC CAP. (1005) CH J 12PF/50V
C135	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C136	9HSHB1JJ3CH101	J	AA	CHIP CERAMIC CAP. (1005) CH J 100PF/50V
C137,138	9HSHB1JK30B561	J	AA	CHIP CERAMIC CAP. (1005) B K 560PF/50V
C139	9HSHD1EK30B473	J	AB	CHIP CERAMIC CAP. B K 0.047UF/25V
C139	9HSHD1JK30B473	J	AB	CHIP CERAMIC CAP. B K 0.047UF/50V
C140	9HSHD1EK30B273	J	AU	CHIP CERAMIC CAP. B K 0.027UF/25V
C140	9HSHD1JK30B273	J	AB	CHIP CERAMIC CAP. B K 0.027UF/50V
C142~144	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C154	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C201~204	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C205B	9HSHB1AK30B104	J	AB	CHIP CERAMIC CAP. (1005) B K 0.1UF/10V

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C206	9HSHD1EK30B333	J	AA	CHIP CERAMIC CAP. B K 0.033UF/25V
C206	9HSHD1JK30B333	J	AB	CHIP CERAMIC CAP. B K 0.033UF/50V
C207	9HSHB1JJ3CH680	J	AA	CHIP CERAMIC CAP. (1005) CH J 68PF/50V
C209	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C210	9HSHB1JK30B222	J	AA	CHIP CERAMIC CAP. (1005) B K 2200PF/50V
C211	9HSHB1EK30B682	J	AA	CHIP CERAMIC CAP. (1005) B K 6800PF/25V
C212	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C213	9HSHB1JK30B102	J	AA	CHIP CERAMIC CAP. (1005) B K 1000PF/50V
C214~225	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C228	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C229	9HSHD1EK30B473	J	AB	CHIP CERAMIC CAP. B K 0.047UF/25V
C229	9HSHD1JK30B473	J	AB	CHIP CERAMIC CAP. B K 0.047UF/50V
C230	9HSHD1JK30B103	J	AA	CHIP CERAMIC CAP. B K 0.01UF/50V
C231,232	9HSE0KMR1CL470	J	AC	CHIP ELECTROLYTIC CAP. 47UF/6.3V M (WX)
C233	9HSE1CMR1CL100	J	AC	CHIP ELECTROLYTIC CAP. 10UF/16V M (WX)
C234,235	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C236	9HSHD1AK30B224	J	AC	CHIP CERAMIC CAP. B K 0.22UF/10V
C240	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C301,302	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C303	9HSHD1JJ3CH300	J	AA	CHIP CERAMIC CAP CH J 30PF/50V
C304	9HSHB1JJ3CH300	J	AA	CHIP CERAMIC CAP. (1005) CH J 30PF/50V
C305,306	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C310	9HSHD1JK30B103	J	AA	CHIP CERAMIC CAP. B K 0.01UF/50V
C311	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C401	9HSHB1CK30B103	J	AP	CHIP CERAMIC CAP. (1005) B K 0.01UF/16V
C401	9HSHB1EK30B103	J	AA	CHIP CERAMIC CAP. (1005) B K 0.01UF/25V
C403	9HSHB1JK30B821	J	AA	CHIP CERAMIC CAP. (1005) B K 820PF/50V
C404	9HSHD1EJ3CH821	J	AB	CHIP CERAMIC CAP. CH J 820PF/25V
C404	9HSHD1JJ3CH821	J	AB	CHIP CERAMIC CAP. CH J 820PF/50V
C410	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C411	9HSHB1CZ30F104	J	AA	CHIP CERAMIC CAP. (1005) F Z 0.1UF/16V
C415,416	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C502	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C506	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C601	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C602	9HSHD1JJ3CH181	J	AA	CHIP CERAMIC CAP. CH J 180PF/50V
C603	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C605~607	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C608	9HSE0KMR1CL331	J	AC	CHIP ELECTROLYTIC CAP. 330UF/6.3V M (WX)
C609~611	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C613,614	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C616~624	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C701	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C703	9HSHD1AZ30F105	J	AB	CHIP CERAMIC CAP. F Z 1UF/10V
C709	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C710	9HSHB1JJ3CH270	J	AA	CHIP CERAMIC CAP. (1005) CH J 27PF/50V
C711	9HSHB1JJ3CH220	J	AA	CHIP CERAMIC CAP. (1005) CH J 22PF/50V
C715	9HSHB1JJ3CH101	J	AA	CHIP CERAMIC CAP. (1005) CH J 100PF/50V
C722,723	9HSHB1JD3CH100	J	AA	CHIP CERAMIC CAP. (1005) CH D 10PF/50V
C751	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C761,762	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C801	9HSE0KMR1CL470	J	AC	CHIP ELECTROLYTIC CAP. 47UF/6.3V M (WX)
C802	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C803	9HSE0KMR1CL331	J	AC	CHIP ELECTROLYTIC CAP. 330UF/6.3V M (WX)

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C804	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C805	9HSE0KMR1CL470	J	AC	CHIP ELECTROLYTIC CAP. 47UF/6.3V M (WX)
C1201,1202	9HSE1CMR1CL100	J	AC	CHIP ELECTROLYTIC CAP. 10UF/16V M (WX)
C1203,1204	9HSHB1JK30B681	J	AA	CHIP CERAMIC CAP. (1005) B K 680PF/50V
C1205,1206	9HSHB1JK30B391	J	AA	CHIP CERAMIC CAP. (1005) B K 390PF/50V
C1207,1208	9HSHB1JD3CH9R0	J	AA	CHIP CERAMIC CAP. (1005) CH D 9PF/50V
C1221,1222	9HSE1CMR1CL100	J	AC	CHIP ELECTROLYTIC CAP. 10UF/16V M (WX)
C1245,1246	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C1247	9HSE1AMR1CL221	J	AC	CHIP ELECTROLYTIC CAP. 220UF/10V M (WX)
C1249	9HSE1CMR1CL470	J	AC	CHIP ELECTROLYTIC CAP. 47UF/16V M (WX)
C1353	9HSHD1CK30B104	J	AB	CHIP CERAMIC CAP. B K 0.1UF/16V
C1353	9HSHD1EK30B104	J	AB	CHIP CERAMIC CAP. B K 0.1UF/25V
C1354	9HSHB1JJ3CH101	J	AA	CHIP CERAMIC CAP. (1005) CH J 100PF/50V
C1356	9HSE0KMR1CL470	J	AC	CHIP ELECTROLYTIC CAP. 47UF/6.3V M (WX)
C1357	9HSE1AMR1CL220	J	AC	CHIP ELECTROLYTIC CAP. 22UF/10V M (WX)
C1358	9HSHD1CK30B104	J	AB	CHIP CERAMIC CAP. B K 0.1UF/16V
C1358	9HSHD1EK30B104	J	AB	CHIP CERAMIC CAP. B K 0.1UF/25V
C1391	9HSE0KMR1CL220	J	AC	CHIP ELECTROLYTIC CAP. 22UF/6.3V M (WX)
C1401	9HSHD1AK30B334	J	AC	CHIP CERAMIC CAP. B K 0.33UF/10V
C1402	9HSE0KMASTL471	J	AB	ELECTROLYTIC CAP. 470UF/6.3V M
C1421	9HSHD1JK30B103	J	AA	CHIP CERAMIC CAP. B K 0.01UF/50V
C1422	9HSHD1CK30B104	J	AB	CHIP CERAMIC CAP. B K 0.1UF/16V
C1422	9HSHD1EK30B104	J	AB	CHIP CERAMIC CAP. B K 0.1UF/25V
C1441	9HSHD1AK30B334	J	AC	CHIP CERAMIC CAP. B K 0.33UF/10V
C1442	9HSE0KMASTL471	J	AB	ELECTROLYTIC CAP. 470UF/6.3V M
C1461	9HSE1JMR1CL1R0	J	AC	CHIP ELECTROLYTIC CAP. 1UF/50V M (WX)
C1481	9HSE1JMR1CL1R0	J	AC	CHIP ELECTROLYTIC CAP. 1UF/50V M (WX)
C1522	9HSE1CMR1CL100	J	AC	CHIP ELECTROLYTIC CAP. 10UF/16V M (WX)
C1523	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C1531	9HSHD1JK30B103	J	AA	CHIP CERAMIC CAP. B K 0.01UF/50V
C1532	9HSE0KMR1CL220	J	AC	CHIP ELECTROLYTIC CAP. 22UF/6.3V M (WX)
C1701	9HSHB1JJ3CH101	J	AA	CHIP CERAMIC CAP. (1005) CH J 100PF/50V
C1801	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C4401	9HSHB1JJ3CH331	J	AA	CHIP CERAMIC CAP. (1005) CH J 330PF/50V
C4404	9HSHB1CZ30F104	J	AA	CHIP CERAMIC CAP. (1005) F Z 0.1UF/16V
C4405~4408	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C4412	9HSE0KMR1CL101	J	AC	CHIP ELECTROLYTIC CAP. 100UF/6.3V M (WX)
C4413	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C4414	9HSE1CMR1CL101	J	AC	CHIP ELECTROLYTIC CAP. 100UF/16V M (WX)
C4415	9HSHD1JK30B103	J	AA	CHIP CERAMIC CAP. B K 0.01UF/50V
C4420	9HSHB1CK30B333	J	AA	CHIP CERAMIC CAP. (1005) B K 0.033UF/16V

RESISTORS

JJ301~304	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
JJ401~404	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
JJ501~507	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
JJ701	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R102,103	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R106~108	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R111	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R112	9HSRX4JR7Z0150	J	AA	CHIP RES. (3216) 1/4W J 15 OHM
R113	9HSRXGJR4Z02R2	J	AA	CHIP RES. (1005) 1/16W J 2.2 OHM
R116	9HSRX4JR7Z0150	J	AA	CHIP RES. (3216) 1/4W J 15 OHM
R117	9HSRXGJR4Z02R2	J	AA	CHIP RES. (1005) 1/16W J 2.2 OHM

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NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R119	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R120	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R121	9HSRXGJR4Z0223	J	AA	CHIP RES. (1005) 1/16W J 22K OHM
R122	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R125~127	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R128~130	9HSRXGJR4Z0153	J	AA	CHIP RES. (1005) 1/16W J 15K OHM
R131	9HSRXGJR4Z0222	J	AA	CHIP RES. (1005) 1/16W J 2.2K OHM
R133,134	9HSRXGJR4Z0105	J	AA	CHIP RES. (1005) 1/16W J 1M OHM
R135	9HSRXGJR4Z0153	J	AA	CHIP RES. (1005) 1/16W J 15K OHM
R136	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R138	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R143	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R144	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R149~152	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R155,156	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R160	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R163,164	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R168,169	9HSRXGJR4Z0101	J	AA	CHIP RES. (1005) 1/16W J 100 OHM
R170,171	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R203	9HSRXGJR4Z0105	J	AA	CHIP RES. (1005) 1/16W J 1M OHM
R205	9HSRXGJR4Z0153	J	AA	CHIP RES. (1005) 1/16W J 15K OHM
R206	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R207~212	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R220~222	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R224	9HSRXGJR4Z0105	J	AA	CHIP RES. (1005) 1/16W J 1M OHM
R225	9HSRXGJR4Z0681	J	AA	CHIP RES. (1005) 1/16W J 680 OHM
R226,227	9HSRXGJR4Z0472	J	AA	CHIP RES. (1005) 1/16W J 4.7K OHM
R228	9HSRXGJR4Z0333	J	AA	CHIP RES. (1005) 1/16W J 33K OHM
R229	9HSRXGJR4Z0223	J	AA	CHIP RES. (1005) 1/16W J 22K OHM
R230,231	9HSRXGJR4Z0153	J	AA	CHIP RES. (1005) 1/16W J 15K OHM
R232	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R234	9HSRXGJR4Z0273	J	AA	CHIP RES. (1005) 1/16W J 27K OHM
R235	9HSRXGJR4Z0682	J	AA	CHIP RES. (1005) 1/16W J 6.8K OHM
R237	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R239~241	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R301~305	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R306	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R308,309	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R310	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R311,312	9HSRXGJR4Z0272	J	AA	CHIP RES. (1005) 1/16W J 2.7K OHM
R316	9HSRXGJR4Z0182	J	AA	CHIP RES. (1005) 1/16W J 1.8K OHM
R317	9HSRXGJR4Z0223	J	AA	CHIP RES. (1005) 1/16W J 22K OHM
R320~322	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R325	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R328,329	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R331	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R332	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R336	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R337	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R338	9HSRXGJR4Z0682	J	AA	CHIP RES. (1005) 1/16W J 6.8K OHM
R401,402	9HSRXGJR4Z0822	J	AA	CHIP RES. (1005) 1/16W J 8.2K OHM
R403	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R406	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R412	9HSRXGJR4Z0682	J	AA	CHIP RES. (1005) 1/16W J 6.8K OHM
R417	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R502	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R602~607	9HSRXGJR4Z0470	J	AA	CHIP RES. (1005) 1/16W J 47 OHM
R608	9HSRXGJR4Z0101	J	AA	CHIP RES. (1005) 1/16W J 100 OHM
R609	9HSRXGJR4Z0471	J	AA	CHIP RES. (1005) 1/16W J 470 OHM
R610	9HSRXGJR4Z0470	J	AA	CHIP RES. (1005) 1/16W J 47 OHM
R611	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R612	9HSRXGJR4Z0470	J	AA	CHIP RES. (1005) 1/16W J 47 OHM
R615	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R616	9HSRXGJR4Z0183	J	AA	CHIP RES. (1005) 1/16W J 18K OHM
R618	9HSRXGJR4Z0183	J	AA	CHIP RES. (1005) 1/16W J 18K OHM
R620	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R622	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R626	9HSRXGJR4Z0471	J	AA	CHIP RES. (1005) 1/16W J 470 OHM
R627,628	9HSRXGJR4Z0750	J	AA	CHIP RES. (1005) 1/16W J 75 OHM

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R629	9HSRXGJR4Z0220	J	AA	CHIP RES. (1005) 1/16W J 22 OHM
R630,631	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R637	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R638	9HSRXGJR4Z0473	J	AA	CHIP RES. (1005) 1/16W J 47K OHM
R701	9HSRXGJR4Z0334	J	AA	CHIP RES. (1005) 1/16W J 330K OHM
R702	9HSRXGJR4Z0104	J	AA	CHIP RES. (1005) 1/16W J 100K OHM
R706	9HSRXGJR4Z0334	J	AA	CHIP RES. (1005) 1/16W J 330K OHM
R709	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R712~714	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R717~719	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R720	9HSRXGJR4Z0101	J	AA	CHIP RES. (1005) 1/16W J 100 OHM
R721	9HSRXGJR4Z0105	J	AA	CHIP RES. (1005) 1/16W J 1M OHM
R722	9HSRXGJR4Z0470	J	AA	CHIP RES. (1005) 1/16W J 47 OHM
R723~725	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R727	9HSRXGJR4Z0472	J	AA	CHIP RES. (1005) 1/16W J 4.7K OHM
R728,729	9HSRXGJR4Z0182	J	AA	CHIP RES. (1005) 1/16W J 1.8K OHM
R731	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R734,735	9HSRXGJR4Z0470	J	AA	CHIP RES. (1005) 1/16W J 47 OHM
R751	9HSRXGJR4Z0473	J	AA	CHIP RES. (1005) 1/16W J 47K OHM
R752	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R761	9HSRXGJR4Z0334	J	AA	CHIP RES. (1005) 1/16W J 330K OHM
R762	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R764,765	9HSRXGJR4Z0470	J	AA	CHIP RES. (1005) 1/16W J 47 OHM
R766	9HSRXGJR4Z0473	J	AA	CHIP RES. (1005) 1/16W J 47K OHM
R801	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R1101~1104	9HSRXAJR5Z0103	J	AA	CHIP RES. (1608) 1/10W J 10K OHM
R1106	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R1201,1202	9HSRXGJR4Z0224	J	AA	CHIP RES. (1005) 1/16W J 220K OHM
R1203,1204	9HSRXGJR4Z0123	J	AA	CHIP RES. (1005) 1/16W J 12K OHM
R1205,1206	9HSRXGJR4Z0183	J	AA	CHIP RES. (1005) 1/16W J 18K OHM
R1207,1208	9HSRXGJR4Z0393	J	AA	CHIP RES. (1005) 1/16W J 39K OHM
R1209,1210	9HSRXGJR4Z0563	J	AA	CHIP RES. (1005) 1/16W J 56K OHM
R1211,1212	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R1221,1222	9HSRXGJR4Z0104	J	AA	CHIP RES. (1005) 1/16W J 100K OHM
R1223,1224	9HSRXGJR4Z0471	J	AA	CHIP RES. (1005) 1/16W J 470 OHM
R1225,1226	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R1227,1228	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R1235~1238	9HSRXGJR4Z0222	J	AA	CHIP RES. (1005) 1/16W J 2.2K OHM
R1239,1240	9HSRXGJR4Z0104	J	AA	CHIP RES. (1005) 1/16W J 100K OHM
R1245	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R1246	9HSRXGJR4Z0333	J	AA	CHIP RES. (1005) 1/16W J 33K OHM
R1247	9HSRXGJR4Z0393	J	AA	CHIP RES. (1005) 1/16W J 39K OHM
R1352	9HSRXGJR4Z0182	J	AA	CHIP RES. (1005) 1/16W J 1.8K OHM
R1353,1354	9HSRXGJR4Z0222	J	AA	CHIP RES. (1005) 1/16W J 2.2K OHM
R1355	9HSRXAJR5Z0221	J	AA	CHIP RES. (1608) 1/10W J 220 OHM
R1356	9HSRXAJR5Z0750	J	AA	CHIP RES. (1608) 1/10W J 75 OHM
R1392,1393	9HSRX8JR6Z0151	J	AA	CHIP RES. (2125) 1/8W J 150 OHM
R1394,1395	9HSRXAJR5Z0151	J	AA	CHIP RES. (1608) 1/10W J 150 OHM
R1401	9HSRXGJR4Z0301	J	AA	CHIP RES. (1005) 1/16W J 300 OHM
R1402	9HSRXAJR5Z0750	J	AA	CHIP RES. (1608) 1/10W J 75 OHM
R1412	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R1421	9HSRXGJR4Z0301	J	AA	CHIP RES. (1005) 1/16W J 300 OHM
R1422	9HSRXAJR5Z0750	J	AA	CHIP RES. (1608) 1/10W J 75 OHM
R1441	9HSRXGJR4Z0301	J	AA	CHIP RES. (1005) 1/16W J 300 OHM
R1442	9HSRXAJR5Z0750	J	AA	CHIP RES. (1608) 1/10W J 75 OHM
R1461	9HSRXGJR4Z0301	J	AA	CHIP RES. (1005) 1/16W J 300 OHM
R1481	9HSRXGJR4Z0301	J	AA	CHIP RES. (1005) 1/16W J 300 OHM
R1521	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R1701	9HSRXGJR4Z0101	J	AA	CHIP RES. (1005) 1/16W J 100 OHM

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R1702	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R1703	9HSRXGJR4Z0104	J	AA	CHIP RES. (1005) 1/16W J 100K OHM
R1704	9HSRXGJR4Z0101	J	AA	CHIP RES. (1005) 1/16W J 100 OHM
R1705	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R1706	9HSRXAJR5Z0474	J	AA	CHIP RES. (1608) 1/10W J 470K OHM
R1825	9HSRXGJR4Z0182	J	AA	CHIP RES. (1005) 1/16W J 1.8K OHM
R4405	9HSRX4JR7Z0R68	J	AC	CHIP RES. (3216) 1/4W J 0.68 OHM
R4406,4407	9HSRX4JR7Z03R9	J	AC	CHIP RES. (3216) 1/4W J 3.9 OHM
R4408	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R4409	9HSRXGJR4Z0682	J	AA	CHIP RES. (1005) 1/16W J 6.8K OHM
R4410	9HSRXAJR5Z0181	J	AA	CHIP RES. (1608) 1/10W J 180 OHM
R4411	9HSRXGJR4Z0333	J	AA	CHIP RES. (1005) 1/16W J 33K OHM
R4412	9HSRXGJR4Z0822	J	AA	CHIP RES. (1005) 1/16W J 8.2K OHM
R4415	9HSRXGJR4Z0102	J	AA	CHIP RES. (1005) 1/16W J 1K OHM
R4418	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R4422,4423	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R4424,4425	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R4427	9HSRXGJR4Z0103	J	AA	CHIP RES. (1005) 1/16W J 10K OHM
R4428,4429	9HSRXGJR4Z0822	J	AA	CHIP RES. (1005) 1/16W J 8.2K OHM
R5501	9HSRXGJR4Z0221	J	AA	CHIP RES. (1005) 1/16W J 220 OHM
R5502,5503	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R5504	9HSRXGJR4Z0221	J	AA	CHIP RES. (1005) 1/16W J 220 OHM
R5505	9HSRXGZR4Z0000	J	AA	CHIP RES. (1005) 1/16W 0 OHM
R5506	9HSRXGJR4Z0221	J	AA	CHIP RES. (1005) 1/16W J 220 OHM
R5508	9HSRXAJR5Z0102	J	AA	CHIP RES. (1608) 1/10W J 1K OHM

OTHER CIRCUITRY PARTS

CN101	9HSCFZD30JG001	J	AK	FLZ CONNECTOR, 30P 30FLZ-SM1-TB
CN201	9HS3SFC04NB001	J	AD	STRAIGHT PIN HEADER, 4P IL-S-4P-S2T2-EF
CN301	9HS3SHD06JG003	J	AE	1.0MM CONNECTOR BASE 6P BM06B-SRSS-TB
CN302	9HS3SHD07JG003	J	AF	1.0MM CONNECTOR BASE 7P BM07B-SRSS-TB
CN303	9HS3ZHD02JG002	J	AE	CONNECTOR, 2P S2B-ZR-SM3A-TF
CN501	9HSC96D30ER006	J	AG	FFC CONNECTOR 30P 9611S-30Y901
CN1602	9HSC96D06ER005	J	AD	FFC CONNECTOR, 6P 9611S-06Y900
CN4401	9HS3ZHD03JG002	J	AE	CONNECTOR, 3P S3B-ZR-SM3A-TF
CN4402	9HSC96D04ER008	J	AD	FPC/FFC CONNECTOR, 4P IMSA-9617S-04Y900
CN4403	9HSC96D11ER008	J	AE	FPC/FFC CONNECTOR, 11P IMSA-9617S-11Y900
JK1201	9HSXRL020LY067	J	AE	2PIN JACK MSD-242V-01 NI
JK1202	9HSXRL010LY016	J	AD	DIGITAL AOUDIO OUT MSP-251V-05 PBSN
JK1401	9HSXRL020RP023	J	AF	RCA JACK AVS1-01-002
JK1701	9HSXSL070JD001	J	AE	DIA 3.5MM EARPHONE JACK JY-3537-01-070
W1602	9HSX1E56C0-004	J	AE	6P FFC POWER PCB TO MAIN

P.W.B. ASSEMBLY (Not Replacement Item)

	9HSN7SS2FEP	J	—	DVD MAIN CBA UNIT

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

POWER PWB

INTEGRATED CIRCUITS

⚠ IC1001	9HSPEB0LTV817F	J	AE	PHOTOCOUPLER LTV-817B-F
⚠ IC1001	9HSPEC0LTV817F	J	AD	PHOTOCOUPLER LTV-817C-F
IC1002	9HSSZBA0SSH012	J	AG	1.8V REGULATOR PQ018EF01SZ
IC1003	9HSSZLA0TJY001	J	AE	IC KIA431-AT
IC1006	9HSSZLA0TJY001	J	AE	IC KIA431-AT

TRANSISTORS

⚠ Q1001	9HSFZZFS1KM18A	J	AH	FET FS1KM-18A
Q1002	9HSQSH02SC2785	J	AB	TRANSISTOR 2SC2785 (H)
Q1002	9HSQS10KTC3199	J	AB	TRANSISTOR KTC3199 (GR)
Q1003	9HSQSH02SC2785	J	AB	TRANSISTOR 2SC2785 (H)
Q1003	9HSQS10KTC3199	J	AB	TRANSISTOR KTC3199 (GR)
Q1004	9HSQSY0KTC3205	J	AD	TRANSISTOR KTC3205 (Y)
Q1005	9HSQSZ0KRC110M	J	AB	RES. BUILT-IN TRANSISTOR KRC110M
Q1006	9HSQSP00BN1L3Z	J	AC	RES. BUILT-IN TRANSISTOR BN1L3Z (P)
Q1006	9HSQSZ0KRA110M	J	AB	RES. BUILT-IN TRANSISTOR KRA110M
Q1007	9HSQSY0KTC3205	J	AD	TRANSISTOR KTC3205 (Y)
Q1008	9HSQSH02SC2785	J	AB	TRANSISTOR 2SC2785 (H)
Q1008	9HSQS10KTC3199	J	AB	TRANSISTOR KTC3199 (GR)
Q1011	9HSQSY0KTA1273	J	AD	TRANSISTOR KTA1273 (Y)
Q1014	9HSQWY0KTC2026	J	AF	TRANSISTOR KTC2026Y

DIODES

⚠ D1001,1002	9HSDQZ001N4005	J	AB	RECTIFIER DIODE 1N4005
⚠ D1004,1005	9HSDQZ001N4005	J	AB	RECTIFIER DIODE 1N4005
D1008	9HSDQZ000SB340	J	AF	SCHOTTKY BARRIER DIODE SB340
D1009	9HSDPZ0ERA1804	J	AC	FAST RECOVERY DIODE ERA18-04
D1009	9HSDQZ000BA157	J	AB	RECTIFIER DIODE BA157
D1011	9HSDPZ0ERA2210	J	AC	RECTIFIER DIODE ERA22-10
D1011	9HSDQZ000BA159	J	AB	RECTIFIER DIODE BA159
D1012	9HSDTZ01N4148M	J	AA	SWITCHING DIODE 1N4148M
D1013	9HSDQZ000SB140	J	AC	SCHOTTKY BARRIER DIODE SB140
D1015	9HSDTB0DZ6R8BS	J	AB	ZENER DIODE DZ-6.8BSBT265
D1018	9HSDTZ01N4148M	J	AA	SWITCHING DIODE 1N4148M
D1022	9HSDTZ01N4148M	J	AA	SWITCHING DIODE 1N4148M
D1024,1024	9HSDTZ01N4148M	J	AA	SWITCHING DIODE 1N4148M
D1030	9HSDQZ0ERB3201	J	AE	FAST RECOVERY DIODE ERB32-01L3
D1030	9HSDQZ000FR202	J	AB	RECTIFIER DIODE FR202
D1036	9HSDTB00DZ13BS	J	AB	ZENER DIODE DZ-13BSBT265
D1045	9HSDQZ000SB140	J	AC	SCHOTTKY BARRIER DIODE SB140
D1046	9HSDTB0DZ5R6BS	J	AC	ZENER DIODE DZ-5.6BSBT265
D1046	9HSDTB0MTZJ5R6	J	AC	ZENER DIODE MTZJT-775.6B
D1047	9HSDTB0DZ5R6BS	J	AC	ZENER DIODE DZ-5.6BSBT265
D1047	9HSDTB0MTZJ5R6	J	AC	ZENER DIODE MTZJT-775.6B
D1048	9HSDTB00DZ12BS	J	AB	ZENER DIODE DZ-12BSBT265
D1049	9HSDTZ01N4148M	J	AA	SWITCHING DIODE 1N4148M

FILTER

FC1001	9HSL06035TE001	J	AR	CLAMP FILTER ZCAT2035-0930A

TRANSFORMER

⚠ T1001	9HSTT00EPSA127	J	AH	PULSE TRANS CSA-SW0087

COILS

⚠ L1001	9HSLBG00ZTU017	J	AE	LINE FILTER 10MH TLF14CB 103 0R7
L1007	9HSLBD00PKV006	J	AB	CHOKE COIL 22UH-K
L1009	9HSLBD00PKV006	J	AB	CHOKE COIL 22UH-K

DX-AT50H

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
CAPACITORS				
C1001	9HST2E473DC011	J	AC	METALLIZED FILM CAP. 0.047UF/250V K
C1001	9HST2E473MS037	J	AD	METALLIZED FILM CAP. 0.047UF/250V M
C1003	9HSCD2JKP0B103	J	AD	CERAMIC CAP. B K 0.01UF/500V
C1004	9HSE2HMZNTH330	J	AK	ELECTROLYTIC CAP. 33UF/ 400V M (L•Z)
C1005	9HSCD3AJPSL560	J	AC	CERAMIC CAP. SL J 56PF/1KV
C1005	9HSCD3AKPSL560	J	AC	CERAMIC CAP. SL K 56PF/1KV
⚠ C1006A	9HSA2E472MR049	J	AE	SAFETY CAP. 4700PF/250V KX
⚠ C1006A	9HSCN2EMP0E472	J	AD	SAFETY CAP. 4700PF/250V
⚠ C1006B	9HSA2E472MR049	J	AE	SAFETY CAP. 4700PF/250V KX
⚠ C1006B	9HSCN2EMP0E472	J	AD	SAFETY CAP. 4700PF/250V
C1007	9HSE0KMASTH222	J	AD	ELECTROLYTIC CAP. 2200UF/ 6.3V M (105flC)
C1012	9HSE1EMASTH101	J	AD	ELECTROLYTIC CAP. 100UF/ 25V M (105flC)
C1013	9HSA1J332TU011	J	AB	CERAMIC CAP. (AX) B K 3300PF/50V
C1014	9HSE0KMASDL221	J	AB	ELECTROLYTIC CAP. 220UF/ 6.3V M
C1022	9HSHD1JK30B103	J	AA	CHIP CERAMIC CAP. B K 0.01UF/50V
C1029	9HSCA1CKT0X562	J	AA	CERAMIC CAP. (AX) X K 5600PF/16V
C1031	9HSA1J103TU011	J	AB	CERAMIC CAP. (AX) B K 0.01UF/50V
C1032	9HSE1CMASDL100	J	AB	ELECTROLYTIC CAP. 10UF/ 16V M
C1033	9HSA1J223MS029	J	AB	FILM CAP. (P) 0.022UF/50V J
C1035	9HSE1CMASTH471	J	AD	ELECTROLYTIC CAP. 470UF/ 16V M (105flC)
C1036	9HSHD1JK30B103	J	AA	CHIP CERAMIC CAP. B K 0.01UF/50V
C1037	9HSE0KMASDL101	J	AB	ELECTROLYTIC CAP. 100UF/ 6.3V M
C1038	9HSE0KMASDL471	J	AB	ELECTROLYTIC CAP. 470UF/ 6.3V M
C1039	9HSE1CMASDL470	J	AB	ELECTROLYTIC CAP. 47UF/ 16V M
C1040	9HSE0KMASDL101	J	AB	ELECTROLYTIC CAP. 100UF/ 6.3V M
C1041	9HSE0KMASDL471	J	AB	ELECTROLYTIC CAP. 470UF/ 6.3V M
C1042	9HSE0KMASTH221	J	AC	ELECTROLYTIC CAP. 220UF/ 6.3V M (105flC)
C1043	9HSCA1JZTFZ104	J	AB	CERAMIC CAP. (AX) F Z 0.1UF/50V
C1046	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C1047	9HSA1J103MS029	J	AB	FILM CAP. (P) 0.01UF/50V J
C1047	9HSMA1JJS00103	J	AB	FILM CAP. (P) 0.01UF/50V J
C1048	9HSE1CMASTH221	J	AD	ELECTROLYTIC CAP. 220UF/ 16V M (105flC)
C1412	9HSE0KMASDL471	J	AB	ELECTROLYTIC CAP. 470UF/ 6.3V M
C1462	9HSE0KMASDL471	J	AB	ELECTROLYTIC CAP. 470UF/ 6.3V M
C1482	9HSE0KMASDL471	J	AB	ELECTROLYTIC CAP. 470UF/ 6.3V M
RESISTORS				
R1004	9HSN02154KE010	J	AB	METAL OXIDE FILM RES. 2W J 150K OHM
R1004	9HSN02154ZU001	J	AA	METAL OXIDE FILM RES. 2W J 150K OHM
R1005,1006	9HSCX4JATZ0155	J	AA	CARBON RES. 1/4W J 1.5M OHM
R1008	9HSCX4JATZ0102	J	AA	CARBON RES. 1/4W J 1K OHM
R1010	9HSCX4JATZ0333	J	AA	CARBON RES. 1/4W J 33K OHM
R1010	9HSCX6JATZ0333	J	AA	CARBON RES. 1/6W J 33K OHM
R1011	9HSN012R2KE009	J	AB	METAL OXIDE FILM RES. 1W J 2.2 OHM
R1011	9HSN012R2ZU001	J	AB	METAL OXIDE FILM RES. 1W J 2.2 OHM
R1019	9HSCX4JATZ0911	J	AA	CARBON RES. 1/4W J 910 OHM
R1019	9HSCX6JATZ0911	J	AA	CARBON RES. 1/6W J 910 OHM
R1020	9HSRXAJR5Z0471	J	AA	CHIP RES. (1608) 1/10W J 470 OHM
R1021	9HSRXAJR5Z0102	J	AA	CHIP RES. (1608) 1/10W J 1K OHM
R1022	9HSRXAJR5Z0821	J	AA	CHIP RES. (1608) 1/10W J 820 OHM
R1023	9HSRXAJR5Z0202	J	AA	CHIP RES. (1608) 1/10W J 2K OHM

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R1025	9HSCX4JATZ0102	J	AA	CARBON RES. 1/4W J 1K OHM
R1025	9HSCX6JATZ0102	J	AA	CARBON RES. 1/6W J 1K OHM
R1029	9HSCX4JATZ0104	J	AA	CARBON RES. 1/4W J 100K OHM
R1029	9HSCX6JATZ0104	J	AA	CARBON RES. 1/6W J 100K OHM
R1030	9HSN02R68ZU001	J	AB	METAL OXIDE FILM RES. 2W J 0.68 OHM
R1031	9HSCX4GATZ0331	J	AA	CARBON RES. 1/4W G 330 OHM
R1032	9HSCX4JATZ0102	J	AA	CARBON RES. 1/4W J 1K OHM
R1032	9HSCX6JATZ0102	J	AA	CARBON RES. 1/6W J 1K OHM
R1034	9HSCX4JATZ0394	J	AA	CARBON RES. 1/4W J 390K OHM
R1035	9HSCX4JATZ0102	J	AA	CARBON RES. 1/4W J 1K OHM
R1035	9HSCX6JATZ0102	J	AA	CARBON RES. 1/6W J 1K OHM
R1036	9HSCX4JATZ0104	J	AA	CARBON RES. 1/4W J 100K OHM
R1036	9HSCX6JATZ0104	J	AA	CARBON RES. 1/6W J 100K OHM
R1037	9HSCX4JATZ0103	J	AA	CARBON RES. 1/4W J 10K OHM
R1037	9HSCX6JATZ0103	J	AA	CARBON RES. 1/6W J 10K OHM
R1038	9HSCX4JATZ0104	J	AA	CARBON RES. 1/4W J 100K OHM
R1038	9HSCX6JATZ0104	J	AA	CARBON RES. 1/6W J 100K OHM
R1039	9HSCX4JATZ0474	J	AA	CARBON RES. 1/4W J 470K OHM
R1039	9HSCX6JATZ0474	J	AA	CARBON RES. 1/6W J 470K OHM
R1043	9HSN012R7ZU001	J	AA	METAL OXIDE FILM RES. 1W J 2.7 OHM
R1044	9HSRXAJR5Z0223	J	AA	CHIP RES. (1608) 1/10W J 22K OHM
R1051	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R1059	9HSRXAJR5Z0103	J	AA	CHIP RES. (1608) 1/10W J 10K OHM
R1068	9HSCX4JATZ0102	J	AA	CARBON RES. 1/4W J 1K OHM
R1068	9HSCX6JATZ0102	J	AA	CARBON RES. 1/6W J 1K OHM
R1069	9HSNX2JZQZ0181	J	AB	METAL OXIDE FILM RES. 1/2W J 180 OHM
R1070	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R1071	9HSCX4JATZ0753	J	AA	CARBON RES. 1/4W J 75K OHM
R1071	9HSCX6JATZ0753	J	AA	CARBON RES. 1/6W J 75K OHM
R1073	9HSN02100ZU001	J	AB	METAL OXIDE FILM RES. 2W J 10 OHM
R1077	9HSCX6JATZ0221	J	AA	CARBON RES. 1/6W J 220 OHM
R1078	9HSCX4JATZ0102	J	AA	CARBON RES. 1/4W J 1K OHM
R1078	9HSCX6JATZ0102	J	AA	CARBON RES. 1/6W J 1K OHM
R1081	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R1082	9HSCX4JATZ0394	J	AA	CARBON RES. 1/4W J 390K OHM
R1444	9HSCX4JATZ0750	J	AA	CARBON RES. 1/4W J 75 OHM
R1444	9HSCX6JATZ0750	J	AA	CARBON RES. 1/6W J 75 OHM
R1463	9HSCX4JATZ0750	J	AA	CARBON RES. 1/4W J 75 OHM
R1463	9HSCX6JATZ0750	J	AA	CARBON RES. 1/6W J 75 OHM
R1483	9HSCX4JATZ0750	J	AA	CARBON RES. 1/4W J 75 OHM
R1483	9HSCX6JATZ0750	J	AA	CARBON RES. 1/6W J 75 OHM
OTHER CIRCUITRY PARTS				
CN1001	9HSCFNG30JG002	J	AF	FMN CONNECTOR, TOP 30P 30FMN-BTRK
CN1002	9HSCFNG12JG002	J	AD	FMN CONNECTOR, TOP 12P 12FMN-BTRK
CN1003	9HSCFNG06JG001	J	AC	FMN CONNECTOR, TOP 6P 06FMN-BTK
⚠ F1001	9HSAGC20BW3162	J	AC	FUSE T1.6AL/250V
⚠ F1001	9HS1790994	J	AD	FUSE T1.6AL/250V
JK1601	9HSXRL030LY068	J	AE	RCA JACK MSD-253V-25 NI
⚠ SA1001	9HSVQZR10D471K	J	AC	SURGE ABSORBER CNR-10D471K
⚠ SA1001	9HSVQZR10N471K	J	AC	SURGE ABSORBER JVR-10N471K
⚠ SA1001	9HSVQZ10D471KB	J	AC	SURGE ABSORBER PVR-10D471KB
W1001	9HSX1E56C0-006	J	AH	30P FFC POWER PCB TO MAIN
W1002	9HSX1E56C0-005	J	AF	12P FFC POWER PCB TO CONTROL
P.W.B. ASSEMBLY (Not Replacement Item)				
⚠	9HS0VSA13378	J	—	POWER CBA

NO.	PART CODE	★	PRICE RANK	DESCRIPTION

FRONT PWB

INTEGRATED CIRCUIT

IC2001	9HSSZBA0RG2005	J	AQ	IC:LCD DRIVER PT6553LRQ

TRANSISTORS

Q2001	9HSQ1Z0KRA105S	J	AB	CHIP TRANSISTOR KRA105S-RTK
Q2004,2005	9HSQ1Z0KRC107S	J	AB	CHIP TRANSISTOR KRC107S-RTK

DIODES

D2001~2004	9HSD1Z00KDS160	J	AC	CHIP DIODE KDS160-RTK
D2006,2007	9HSDTZ01N4148M	J	AA	SWITCHING DIODE 1N4148M
LE2001,2002	9HSP7ZSELU2E10	J	AM	LED (BLUE) SELU2E10C-S

COIL

L2001	9HSLAXKATTU101	J	AB	INDUCTOR 100UH-K-26T

CAPACITORS

C2002,2003	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C2004	9HSHD1EJ3CH821	J	AB	CHIP CERAMIC CAP. CH J 820PF/25V
C2004	9HSHD1JJ3CH821	J	AB	CHIP CERAMIC CAP. CH J 820PF/50V
C2005	9HSE0KMASDL101	J	AB	ELECTROLYTIC CAP. 100UF/ 6.3V M
C2006	9HSHD1JK30B102	J	AA	CHIP CERAMIC CAP. B K 1000PF/50V
C2007	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C2009~2011	9HSHD1JJ3CH330	J	AA	CHIP CERAMIC CAP. CH J 33PF/50V
C2012	9HSHD1JZ30F104	J	AA	CHIP CERAMIC CAP. F Z 0.1UF/50V
C2015	9HSHD1JJ3CH561	J	AB	CHIP CERAMIC CAP. CH J 560PF/50V

RESISTORS

J1	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
J4	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
J5	9HSRX4ZR7Z0000	J	AA	CHIP RES. (3216) 1/4W 0 OHM
J6	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
J7	9HSRX4ZR7Z0000	J	AA	CHIP RES. (3216) 1/4W 0 OHM
J8~13	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
J14	9HSRX4ZR7Z0000	J	AA	CHIP RES. (3216) 1/4W 0 OHM
J15,16	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
J17~19	9HSRX4ZR7Z0000	J	AA	CHIP RES. (3216) 1/4W 0 OHM
J20	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
J21	9HSRX4ZR7Z0000	J	AA	CHIP RES. (3216) 1/4W 0 OHM
J22	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
J23	9HSRX4ZR7Z0000	J	AA	CHIP RES. (3216) 1/4W 0 OHM
R2001	9HSRXAJR5Z0683	J	AA	CHIP RES. (1608) 1/10W J 68K OHM
R2003,2004	9HSRXAJR5Z0103	J	AA	CHIP RES. (1608) 1/10W J 10K OHM
R2005	9HSCX4JATZ0222	J	AA	CARBON RES. 1/4W J 2.2K OHM
R2005	9HSCX6JATZ0222	J	AA	CARBON RES. 1/6W J 2.2K OHM
R2006	9HSCX4JATZ0222	J	AA	CARBON RES. 1/4W J 2.2K OHM
R2006	9HSCX6JATZ0222	J	AA	CARBON RES. 1/6W J 2.2K OHM
R2007,2008	9HSRXAJR5Z0222	J	AA	CHIP RES. (1608) 1/10W J 2.2K OHM
R2010	9HSRXAJR5Z0221	J	AA	CHIP RES. (1608) 1/10W J 220 OHM
R2012	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R2014	9HSRXAJR5Z0220	J	AA	CHIP RES. (1608) 1/10W J 22 OHM
R2015,2016	9HSRXAJR5Z0390	J	AA	CHIP RES. (1608) 1/10W J 39 OHM
R2028~2031	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM
R2035	9HSRXAJR5Z0222	J	AA	CHIP RES. (1608) 1/10W J 2.2K OHM
R2036	9HSRXAJR5Z0223	J	AA	CHIP RES. (1608) 1/10W J 22K OHM
R2037	9HSRXAJR5Z0392	J	AA	CHIP RES. (1608) 1/10W J 3.9K OHM
R2041~2044	9HSRXAZR5Z0000	J	AA	CHIP RES. (1608) 1/10W 0 OHM

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

OTHER CIRCUITRY PARTS

CN2001	9HSCFNG12JG003	J	AD	FMN CONNECTOR, SIDE 12P 12FMN-STK
FL2001	9HSLCD100EED05	J	AQ	LCD 92-42109-B1
RM2001	9HSSESJRSKK040	J	AH	REMOTE RECEIVER PIC-37143TC5
SW2001~2003	9HSST0101AL055	J	AB	TACT SWITCH SKQNAED010
SW2005~2007	9HSST0101AL055	J	AB	TACT SWITCH SKQNAED010

P.W.B. ASSEMBLY (Not Replacement Item)

	9HS0VSA13375	J	—	FRONT CBA

CABINET

CABINET PARTS

A1X	9HS0VM305797	J	AS	FRONT ASSEMBLY E56C1UD
A1	9HS0VM305794C	J	—	PANEL, FRONT E56C1UD (Not Replacement Item)
A2X	9HS0VM414211	J	AM	TRAY ASSEMBLY E56C0JD
A7	9HS0VM413816	J	AD	LEG CUSHION E56C0JD
A8	9HS0VM101155	J	AP	MAIN CHASSIS E56C0JD
A9	9HS0VM203699	J	AN	TOP SUPPORT ANGLE E56C0JD
A10	9HS0VM305817	J	AH	BACK PLATE E56C2ED
A11	9HS0VM203820	J	AP	BOTTOM CABINET E56C2ED [Except for U.K.]
A11	9HS0VM203821	J	AP	BOTTOM CABINET E56C3BD [For U.K.]
A12	9HS0VM101156J	J	AQ	TOP CABINET E56C0JD
A20	9HS0VM414056	J	AB	LABEL, SERIAL NO.E56C0JD
A21	————		—	LABEL, POP E56C2ED (Not Replacement Item)
A25	9HS0VM414273	J	AB	LASER CAUTION E56C2ED
1B1	9HSN79S0FVM	J	BV	THIN TYPE DVD MECHA 0838 VCDVM030
2B1	9HS0VM305617	J	AE	HOLDER, LCD E56C0JD
2B2	9HS0VM413814	J	AD	REFLECTION SHEET E56C0JD
2B3	9HS0VM413815	J	AE	LIGHITING PLATE E56C0JD
2B4	9HS0VM414143	J	AF	DIFFUSION SHEET E56C0JD
2B5	9HS0VM203702	J	AK	FRONT ANGLE E56C0JD
2B6	9HS0VM413835	J	AD	PWB SPACER E56C0JD
2B7	9HS0VM305680	J	AH	INSULATION SHEET E56C0JD
2B8	9HS0VM413977	J	AE	JACK ANGLE E56C0JD
2B9	9HS0VM414144	J	AB	EARTH PLATE E56C0JD
2B14	9HS0VM414286	J	AC	SPACER E56C0JD
2L001	9HSGBCS3080	J	AB	SCREW, S-TIGHT M3X8 BIND HEAD +
2L002	9HSGBCS3080	J	AB	SCREW, S-TIGHT M3X8 BIND HEAD +
2L003	9HSGBKS3060	J	AA	S-TIGHT SCREW 3X6 BIND + BLACK
2L004	9HSGBKB3080	J	AA	SCREW, B-TIGHT M3X8 BIND HEAD +
2L006	9HSGBKS3060	J	AA	S-TIGHT SCREW 3X6 BIND + BLACK
2L010	9HSGBMP3100	J	AA	SCREW, P-TIGHT 3X10 BIND HEAD+
2L011	9HS0VM414233	J	AB	SCREW, B-TIGHT M3X8 BIND HEAD +
2L012	9HSGBMP3080	J	AA	P-TIGHT SCREW 3X8 BIND +
2L020	9HSGDMP3100	J	AA	SCREW, P-TIGHT M3X10 DISH HEAD+
2L021	9HSGDMS3060	J	AA	SCREW, S-TIGHT M3X6 CONE HEAD+
2L022	9HSGDMS3060	J	AA	SCREW, S-TIGHT M3X6 CONE HEAD+
2L030	9HSGBMS3080	J	AA	S-TIGHT SCREW 3X8 BIND + CHROME
2L040	9HSGDMS2060	J	AA	SCREW, S-TIGHT M2X6 DISH HEAD+
⚠ AC1001	9HSAB0182LW005	J	AQ	AC CORD PQ8B1V5980A-05B [For U.K.]
⚠ AC1001	9HSAE0172LW006	J	AG	AC CORD PE8B2CB980A-057 [Except for U.K.]
⚠ FH1001,1002	9HSH01Z00LY001	J	AB	FUSE HOLDER MSF-015

DX-AT50H

NO.	PART CODE	★	PRICE RANK		DESCRIPTION

ACCESSORIES/PACKING PARTS

A23	9HS0VM414274	J	AC		LABEL, PRODUCT SERIAL NO.E56C2ED [Except for U.K.]
A23	9HS0VM414275	J	AC		LABEL,PRODUCT SERIAL NO.E56C3BD [For U.K.]
A24	9HS0VM414272	J	AB		LABEL, EAN BAR CODE E56C2ED
S1	9HS0VM414329	J	AN		PACKING CASE E56C2ED
S2	9HS0VM101162	J	AE		DVD PACK AD (FRONT) E56C0JD
S3	9HS0VM101163	J	AF		DVD PACK AD (REAR) E56C0JD
S5	9HS0VM413927	J	AF		POLY BAG E56C0JD
S6	9HS0VM414316	J	AC		POLY BAG (AC) E56C0JD
X1	9HS0VM305855	J	AC		SAFETY TAG E56C2ED

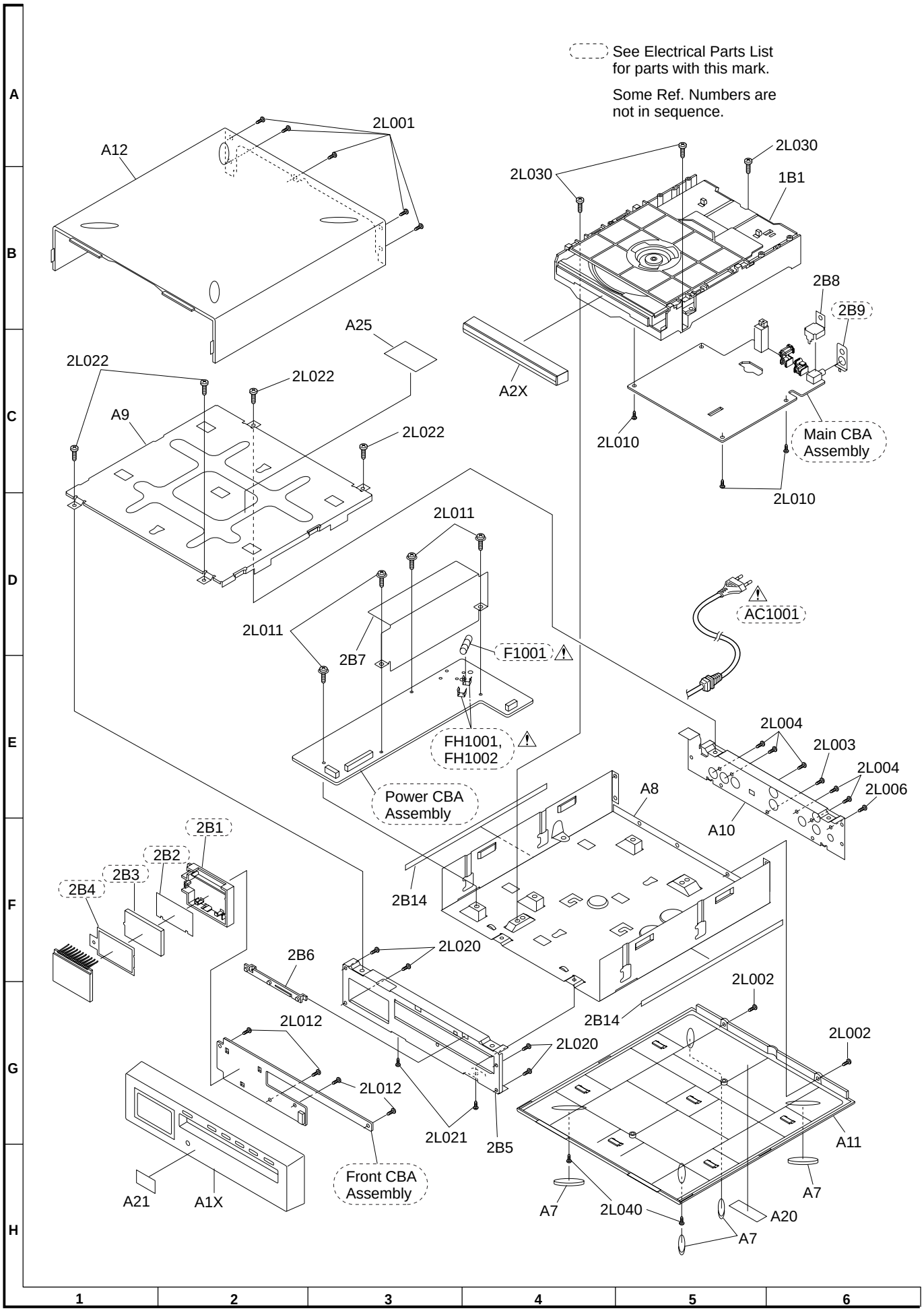
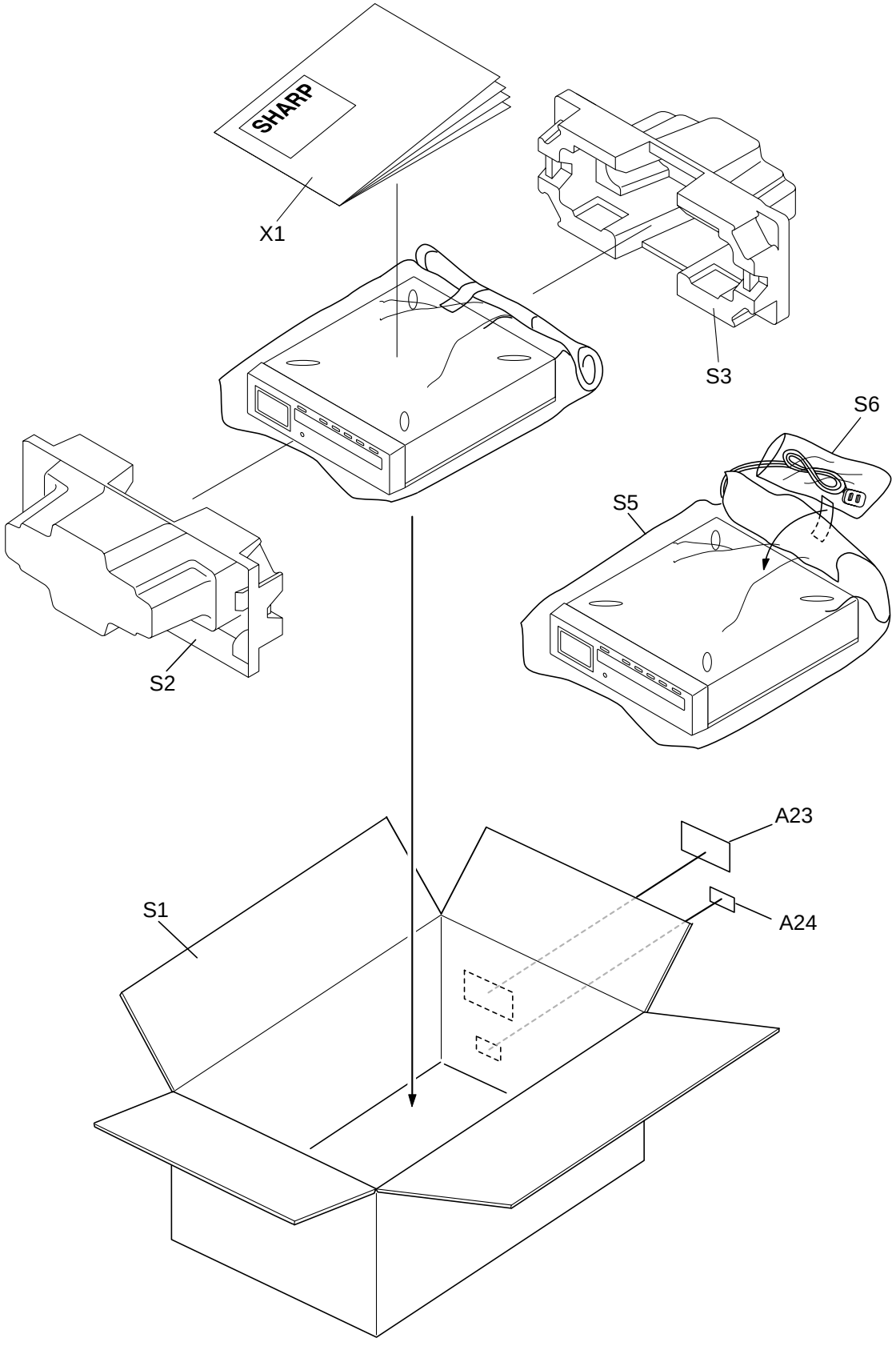


Figure 8 CABINET EXPLODED VIEW

PACKING METHOD (FOR U.K. ONLY)

A23. Label, Product Serial No.	9HS0VM414275	S3. DVD Pack Ad (Rear)	9HS0VM101163
A24. Label, EAN Bar Code	9HS0VM414272	S5. Poly Bag	9HS0VM413927
S1. Packing Case	9HS0VM414329	S6. Poly Bag (AC)	9HS0VM414316
S2. DVD Pack Ad (Front)	9HS0VM101162	X1. Safety Tag	9HS0VM305855



— M E M O —

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A0210-300DS•HA•M

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